LABEL PRINTER PRO

Owner's Manual

NOTICE: LSAD-3 Adapter required with this machine. LSAD-3 complies with California Energy Commission Appliance Efficiency Regulations.

Federal Communications Commission (FCC) Declaration of Conformity

K-Sun Corporation
370 SMC Drive, PO Box 309
Somerset, WI 54025
Phone: 715-247-4440

Product Name: K-Sun LABEL PRINTER PRO
Model Number: K-Sun LABEL PRINTER PRO

This device complies with part 15 of the FCC Rules. Operation is subject to the following two conditions: (1) This device may not cause harmful interference, and (2) this device must accept any interference received, including interference that may cause undesired operation.

Note: This equipment has been tested and found to comply with the limits for a Class B digital device, pursuant to part 15 of the FCC Rules. These limits are designed to provide reasonable protection against harmful interference in a residential installation. This Equipment generates, uses and can radiate radio frequency energy and, if not installed and used in accordance with the instructions, may cause harmful interference to radio communications. However, there is no guarantee that interference will not occur in a particular installation. If this equipment does cause harmful interference to radio or television reception, which can be determined by turning the equipment off and on, the user is encouraged to try to correct the interference by one or more of the following measures:

- Reorient or relocate the receiving antenna.
- Increase the separation between the equipment and receiver.
- Connect the equipment into an outlet on a circuit different from that to which the receiver is connected.
- Consult the dealer or an experienced radio/TV technician for help.
- To ensure compliance with the limits for a Class B digital device the enclosed interface cable should be used. (If Applicable)
- Modifications or changes could void the user's to operate the equipment is not expressly approved by K-Sun Corporation.

Introduction

Thank you for purchasing LABEL PRINTER PRO.

This manual is divided into four sections:
1. Getting Started
2. Basic Operations 1
3. Basic Operations 2
4. Additional Functions

Please read this manual before using your LABEL PRINTER PRO.

This manual contains CAUTION and WARNING notices which must be observed and tips that can assist you complete the task more easily and more effectively. Be sure to keep this manual handy for future references

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- All rights reserved. No part of this manual may be reproduced, stored in a retrieval system, or transmitted in any form or by any means, electronic, mechanical, photocopying, recording, or otherwise, without our prior written permission.

- The contents of this manual are subject to change without notice.
- All effort have been made to ensure the accuracy of the contents of this manual. However, should any errors be detected, we would greatly appreciate being informed of them.

CAUTION!

- Texts and user's symbols you have entered are temporary saved in this device, but not kept for extended period of time. we shall not be liable for damages, losses, costs, or expenses incurred as a result of malfunction, repair, test, or battery exhaustion of this device.
- About the labels
  Before attaching labels, be sure to check the purpose of use and the material of the adhered surface. Depending on the material, environmental conditions, etc., following problems may occur.
  -Color of the labels changes
  -Labels come off
  -Texts on the label wear off
  -Cannot peel off the labels
  -Glue remains on the adhered surface
  -The adhered surface absorbs the color of the label
  -The adhered surface is damaged
  We shall not be liable for any damages, losses, costs, or expenses arising from these problems.
- Do not carry out any operations not described in this manual, or LABEL PRINTER PRO may break or cause injury.

PeelGuard™ is a trademark of K-Sun Corporation.

Important Safety Precautions

Items below should always be followed to protect users, their surroundings and their property from possible injury or damage. Be sure to read and understand the instructions before using your LABEL PRINTER PRO and keep this manual handy for future references.

● Precautionary notations throughout the text are categorized relative to 1) personal injury and 2) damage to equipment.

⚠ **DANGER**	Signals a precaution which, if ignored, will result in serious or fatal personal injury. Pay extra caution in performing procedures preceded by DANDGER headings.
⚠ **WARNING**	Signals a precaution which, if ignored, could result in serious or fatal personal injury.
⚠ **CAUTION**	Signals a precaution which, if ignored, could result in damage to equipment.

● Please familiarize yourself with the following definitions and meanings for each symbol before reading the precautions.

⚠	⚠ Important reminder
❗	❗ Prohibited
⃠	⃠ Mandatory

⚠ DANGER

When using the battery

❗ If liquid leaking from the battery gets into your eyes, do not rub your eyes. Wash them well with clean water and contact a doctor immediately.

⚠ WARNING

When using the AC adapter

Do not attempt to use any adapters other than the AC adapter bundled with the device. This may cause damage, overheating, fire, or electric shock.

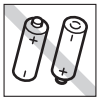
Be sure to use the AC adapter with the proper voltage. Using it with other voltage levels may cause fire, smoke, overheating, or electric shock.

Do not pull the AC adapter cord excessively or put a heavy object on it. This may cause fire or electric shock.

⚠ WARNING

When using the battery

Do not use batteries with their ⊕ and ⊖ terminals reversed. This may cause leakage, overheating, or explosion.

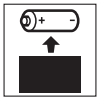


If liquid from the battery enters your mouth, rinse immediately with plenty of water and consult a doctor.

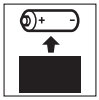
If liquid from the battery comes in contact with your skin or cloth, wash away with water. This may cause damage to your skin.

Do not use a new battery and an old battery, or different types of batteries at the same time. Doing so may cause leakage, overheating, or explosion.

When the battery runs down, take it out of the device immediately. If a flat battery is left inside the device for long periods, gas emitted from the battery may cause leakage, overheating, explosion, or damage to the device.



If you do not use LABEL PRINTER PRO for an extended period, take out the batteries from the device. Gas emitted from the battery may cause leakage, overheating, explosion, or damage to the device.



Follow the instructions given on the label or a package of the battery. Misuse of the batteries may cause leakage, overheating, explosion, injury, or damage to the device.

⚠ WARNING

Other

Do not step on, drop, hit, or have strong impacts on this device. This may cause fire or electric shock. If your LABEL PRINTER PRO is damaged, turn the power off, remove the AC adapter from the electrical outlet, and contact local distributor. Using the damaged device may cause fire and electric shock.

Do not touch the device, AC adapter, or plug with wet hands. This may cause malfunction, fire, or electric shock.

Keep plastic bags out of reach of children. Children may suffocate if they put their heads into plastic bags.

Do not spill liquid or spray insecticide onto LABEL PRINTER PRO. This may cause malfunction, fire, or electric shock. If you spilled liquid, turn the power off, remove the AC adapter from the electrical outlet, and contact local distributor. Using the damaged device may cause fire and electric shock.

Never modify or disassemble the device. This may cause fire or electric shock. Do not carry out any operations not described in this manual, or LABEL PRINTER PRO may break or cause injury.

⚠ CAUTION

When using the battery

Follow the instructions given on the label or a package of the battery. Misuse of the batteries may cause leakage, overheating, explosion, injury, or damage to the device.

Cleaning PeelGuard™

Be sure to turn the power off before removing a PeelGuard™ tray. When cleaning, do not put your fingers inside the PeelGuard™. Otherwise, you might cut your fingers.

Auto-cutter

Keep your fingers off the exit slot where the labels come out during printing or when the cutter is operating. This may cut your fingers.

Other

Do not put anything heavy on LABEL PRINTER PRO or leave it in unstable position. This may cause injury or damage to the device.

Always turn the power off before removing the AC adapter from the electrical outlet. This may cause malfunction of the device.

About the labels

Before attaching labels, be sure to check the purpose of use and the material of the adhered surface. Depending on the material, environmental conditions, etc., following problems may occur.

- Color of the labels change
- Labels come off
- Texts on the label wear off
- Cannot peel off the labels
- Glue remains on the adhered surface
- The adhered surface absorbs the color of the label
- The adhered surface is damaged

We shall not be liable for any damages, losses, costs, or expenses arising from these problems.

Precautions when using tape cartridges

■ Use precautions when installing tape cartridges Do not drop or disassemble the tape cartridges. This may cause malfunction of the cartridges.

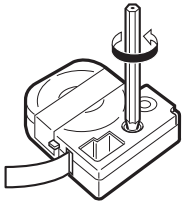
■ Do not pull or squeeze the label coming out of the exit slot. This may cause malfunction of the device.

■ Tape cartridges should be stored in a dark cold place away from direct sunlight, heat, moisture, and dust. It is recommended that you use the tape cartridge as soon as possible after opening.

Precautions when installing tape cartridges

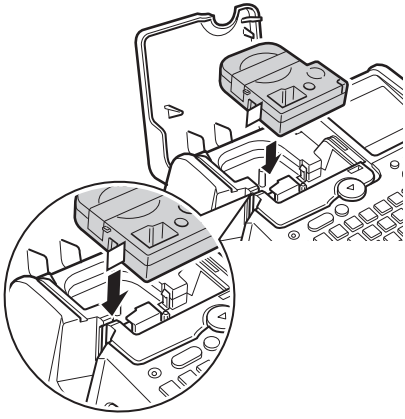
■ **Tighten the ink ribbon**

Insert a pencil or a similar tool into the hole of the tape cartridge and turn it slightly toward the direction of the arrow. If the ink ribbon is not tightened, it may come in contact with the printhead during installation. This may bend or break the ink ribbon and damage the tape cartridge.



■ **Install the tape cartridge properly**

Insert the tape cartridge fully with its label side up until the cartridge is secured by the fixing tab of the main unit. When installing a new tape cartridge or one with an extended tape end, straighten the tape end and pass it through the tape guide. If the tape cartridge is not installed properly, tape may be bent or the tape cartridges may pop out of the main unit during printing. This may cause damage or the malfunction of the tape cartridge.



■ **Feed the tape after installation (Shift + Print)**

After installing the tape cartridge, be sure to feed the tape by pressing the Shift key and the Print key at the same time. If the tape is not fed properly, tape may be bent or the tape cartridges may pop out of the main unit during printing. This may cause damage or the malfunction of the tape cartridge.

See ☞ "Feeding the tape" (p.30).

General cautions

- **Be sure to read and understand the "Important Safety Precautions" before using your LABEL PRINTER PRO.**
- Unplug the AC adapter from both the device and the outlet after use. This may prevent possible accidents caused by tripping over the cord.
- Do not use or store the device in direct sunlight, in places with dust or excessive humidity, or in extreme temperatures.
- Do not attach labels on people, living things, public buildings or properties of others.
- Do not block or insert objects into the AC adapter socket or the tape eject slot.
- Never touch the printhead.
- Be sure to use the tape cartridges that has "LABELShop Tape Mark".
- Avoid using a tape cartridge with no remaining tapes or pressing (Print) without installing tape cartridge. This may cause overheating and malfunction of the printhead.
- Always press [Shift] + (Print) to feed the tape. Never pull out the tape forcibly, otherwise the tape cartridge will be broken and unusable.
- Handle the tape cartridges with care, and avoid having impacts on them.
- Do not handle the keyboard roughly. Do not use a pencil or a sharp material to press the keys. This may damage the keyboard.
- LABEL PRINTER PRO makes sounds when ejecting tapes. This is normal operation for the device.
- Be careful not to cut yourself when using scissors.
- Do not insert labels that has no "LABELShop Tape Mark" into the PeelGuard™.
- Be sure to turn the power off after use.
- If your LABEL PRINTER PRO is not to be used for long periods, remove the batteries, AC adapter, and tape cartridge from the main unit. LABEL PRINTER PRO, batteries, AC adapter, and tape cartridges should be stored in a dark cold place away from direct sunlight, excessive temperature and humidity, magnetism, vibration and dust.
- If a battery is left inside the device for extended period of time, liquid from the battery may leak. Follow the instructions given on the package of the battery and replace it before the expiry date.
- Dispose of the used batteries according to the local regulations.
- LABEL PRINTER PRO contains a lithium battery to save texts, files, and user's symbols. See the sticker on the backside of the main unit as a guide for the timing and replace the lithium battery. To replace the battery, consult the local dealer or our customer center. Replacement is performed at your expense.
- Do not carry out any operations not described in this manual. It may cause injury or damage to the device.
- Contents, specifications, and design described in this manual are subject to change without prior notice.

Using This Manual

About this manual

This manual contains the following sections:

Getting Started

Describes preparations required before using LABEL PRINTER PRO.

Basic Operations

Divided into two sections.
"Basic Operation 1" explains operations such as entering texts and attaching labels.
"Basic Operation 2" gives information on text screen operations (e.g. adding paragraphs) and PeelGuard™. Those who attempt to use LABEL PRINTER PRO for the first time will find it easy to start with "Basic Operation 1".

Additional Functions

Describes useful information that can assist you complete the task more easily and more effectively. With additional functions, you can select documentary forms and styles, register files and addresses. Read and understand "Basic Operations 1" and "Basic Operations 2" before you begin on this section.

Symbols used in this manual

The following symbols are used in this manual:

Symbol	Description
❶, ❷	Indicates operation procedures.
M, O	Indicates the character keys.
Length, Style, Mode	Indicates the function keys.
← ↑ ↓ →	Indicates the keys to move the cursor or select an item.
See ☞	Introduces the reference pages. Refer to the specified pages as necessary.
MEMO	Indicates useful tips.
CAUTION!	Explains limitations and conditions that you should be aware of.

Labels in this manual: Labels contained in this manual are all samples and may differ from actual labels.

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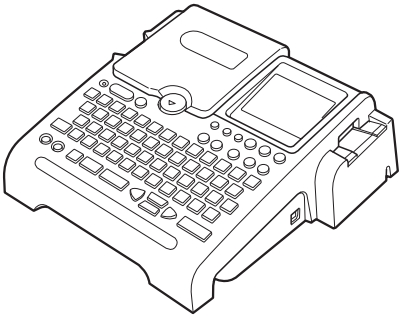
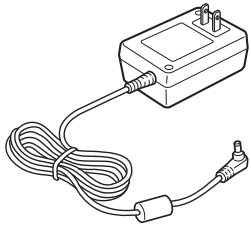
Unpacking the Device

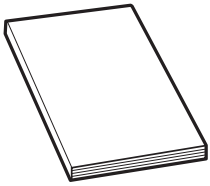
After unpacking the device, make sure you have all the parts shown below:



LABEL PRINTER PRO



AC adapter



LABEL PRINTER PRO
User's Manual
(this booklet)

Setting Up

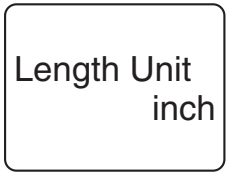
1. Preparation

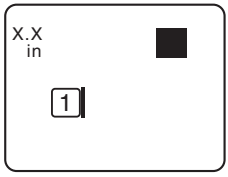
1. **Connect the AC adapter to your LABEL PRINTER PRO.**
   See ☞ "Connecting the AC adapter" (p.24).

2. **Install a tape cartridge.**
   See ☞ "Installing tape cartridges" (p.27).

2. Turning the power on

1. **Press (ON/OFF).**
   Selected length unit appears. A line head icon [1] that indicates the beginning of the line and the cursor then appears.





MEMO

For further information, **see ☞ "Turning the power on" (p.29)** for details.

3. Entering texts (Example: NAME)

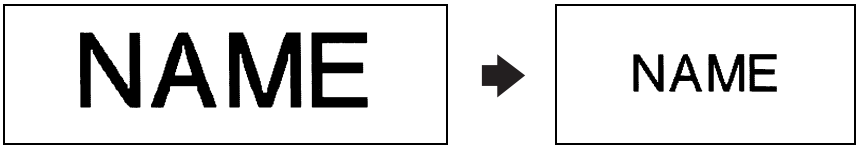
1. **Press [Caps Lock] to enter the texts in capital letters.**

2. **Press the following keys: [N], [A], [M], [E]**
   "NAME" appears on the screen.

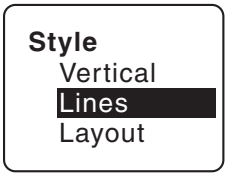
MEMO

For further information, **see ☞ "Creating the Sample Label" (p.32)** for details.

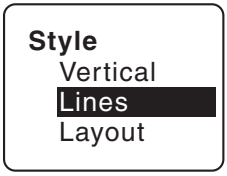
4. Changing the text size



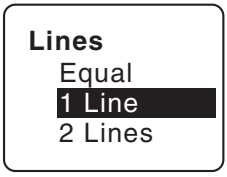
1 **Press Style.**
"Style" menu appears.



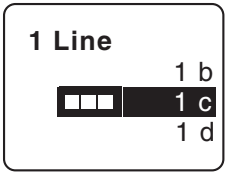
2 **Press ↑ or ↓ to select "Lines", and press Return.**



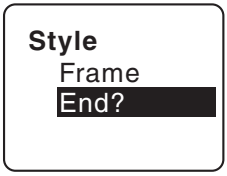
3 **Press ↑ or ↓ to select "1 Line", and press Return.**



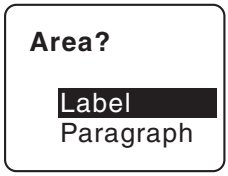
4 **Press ↑ or ↓ to select "■■■ 1c", and press Return.**



5 **Press ↑ or ↓ to select "End?", and press Return.**



6 **Press ↑ or ↓ to select "Label", and press Return.**



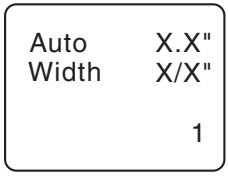
MEMO

For further information, **see** ☞ **"Improving the Appearance of the Label" (p.54)** for details.

5. Printing labels

1 **Hold down the Shift key and press [Graphic] key (= Preview).**

2 **Press Print.**
Printing starts after "Length" and "Width" are displayed on the screen.
When the printing is completed, LABEL PRNTER PRO automatically cuts the tape.
Do not pull the tape forcibly.

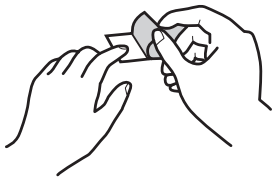


MEMO

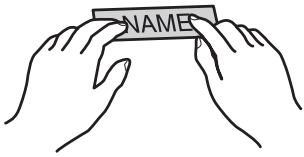
For further information, **see** ☞ **"5. Printing label" (p.37)** for details.

6. Attaching labels

1 **Peel off the backing sheet.**



2 **Attach the label and rub it firmly.**



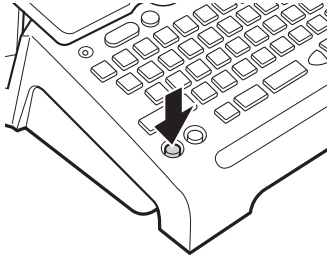
MEMO

For further information, **see** ☞ **"6. Attaching label" (p.38)** for details.

7. Turning the power off

1 **Press** (ON/OFF)**.**

2 **Disconnect the AC adapter.**



MEMO

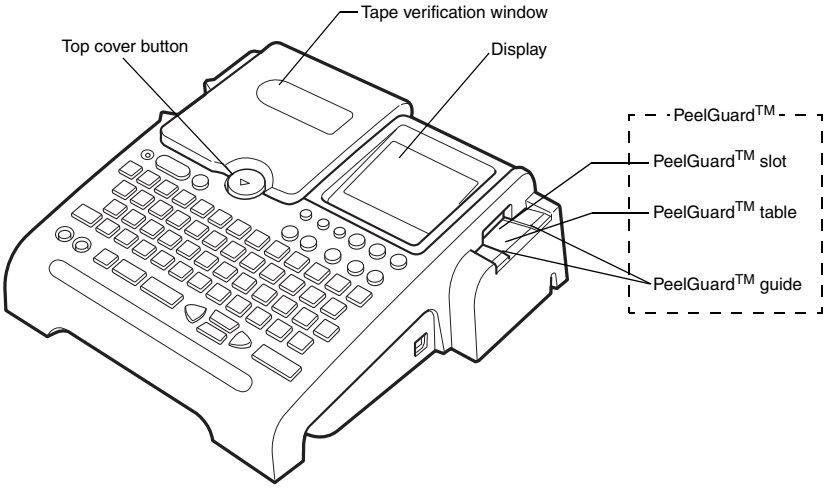
For further information, **see** ☞ **"Turning the Power Off" (p.39)** for details.

Getting Started

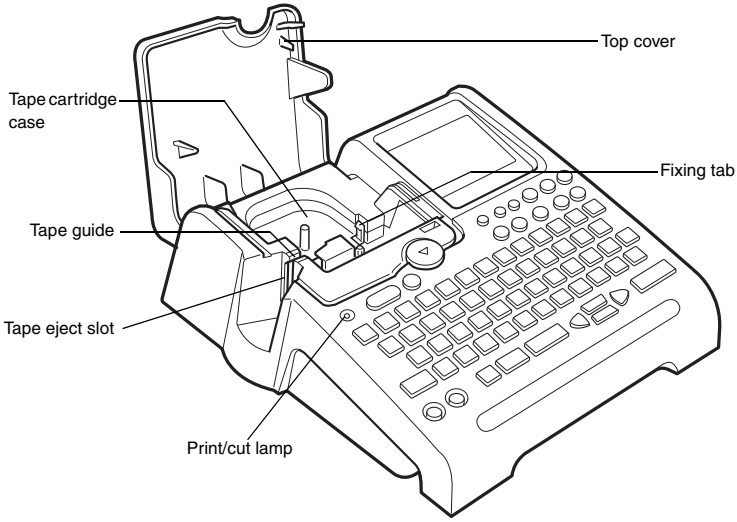
This section describes how to connect the AC adapter to your LABEL PRINTER PRO and turn the power on. If you are a first time user, it is recommended that you read this section first.

LABEL PRINTER PRO Parts

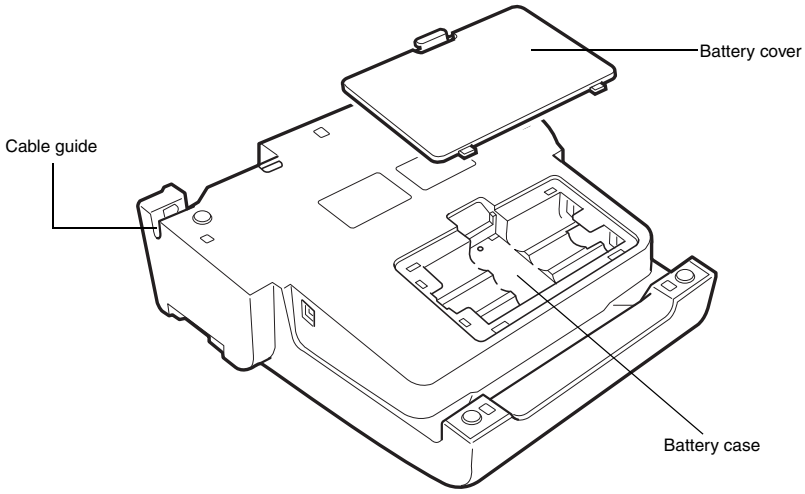
Top side



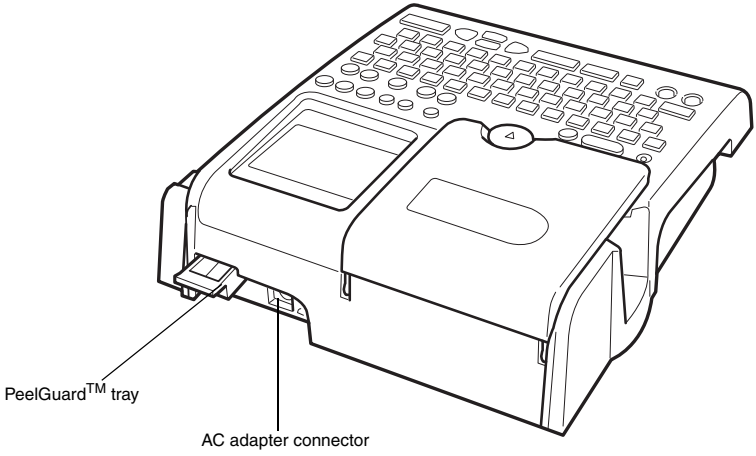
Internal parts



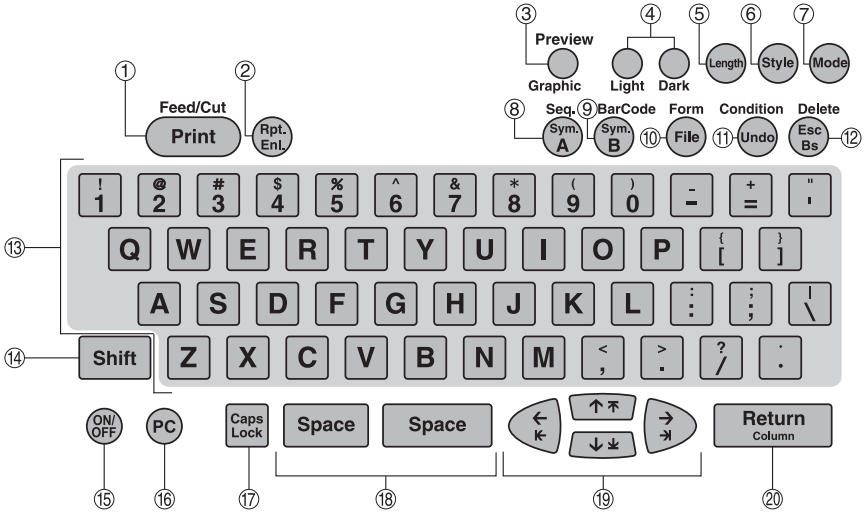
Bottom



Backside



LABEL PRINTER PRO Keys



The functions of each key are described below. To perform the operation indicated by Shift + ⬚, hold down the Shift key and press the specified key.

① Print **(Print)**
Prints the text you entered on the tape, and cuts the tape automatically.
See ☞ **p.37.**

Shift + Print **(= Feed/Cut)**
Feeds the tape 0.7", or cuts the tape.
See ☞ **p.30.**

② Rpt. Enl. **(Extra Print)**
Performs repeat printing or enlarge printing. **See** ☞ **p.110.**
Press this key to disable the auto-cutter feature. **See** ☞ **p.116.**

③ **[Graphic] (Graphic)**
Switches the display of the text entry screen. **See** ☞ **p.22.**

Shift **+[Graphic] (= Preview)**
Shows the preview of the label by scrolling the whole image.
See ☞ **p.36.**

④ **[Light]/[Dark] (Display level)**
Adjusts the density level of the display.
See ☞ **p.23.**

⑤ Length **(Length)**
Sets the length of the label.
See ☞ **p.68.**

⑥ Style **(Style)**
Specifies vertical/horizontal, size of the texts, layout, frame, and table.
These items make up a "text style".

⑦ Mode **(Mode)**
Specifies font, decorate, Exp./Red., border/art, and space.
These items make up a "text mode".

⑧ Sym. A **(Symbol A)**
Shows available symbols.
See ☞ **p.130.**

Shift + Sym. A **(= Sequence)**
Enters sequence numbers.
See ☞ **p.105.**

⑨ Sym, B **(Symbol B)**
Shows available symbols, registers/calls user's symbols.
See ☞ **p.131.**

Shift + Sym, B **(= BarCode)**
Enters bar codes.
See ☞ **p.104.**

⑩ File **(File)**
Registers the text you entered.
See ☞ **p.90.**

Shift + File **(= Sample form, Fixed form)**
Calls sample forms and fixed forms.
See ☞ **p.79.**

⑪ Undo **(Undo)**
Recalls previously deleted objects.
See ☞ **p.43.**

Shift + Undo **(= Condition)**
Changes the set values in the various settings such as display level or print density.
See ☞ **p.119.**

⑫ Esc Bs **(Escape, Back space)**
Deletes the text to the left of the cursor.
Cancels the current operation.

Shift + Esc Bs **(= Delete)**
Deletes the texts or the paragraphs.
See ☞ **p.49.**

⑬ **Character keys (L A B E L ...)**
Enters texts. **See** ☞ **p.141.**

⑭ Shift **(Shift)**
Hold down the Shift key and press the function keys to activate the functions written on the upper part of the keys. To enter in small letters or some symbols, hold down the Shift key and press the character keys.

⑮ ON/OFF **(ON, OFF)**
Turns on/off the power. **See** ☞ **p.29.**

⑯ PC **(PC)**
Switches the status so that the LABEL PRINTER PRO can be connected to a computer when using the CD-ROM (MaxiLabel® Pro).

⑰ Caps Lock **(Caps lock)**

Shift + Caps Lock
Enters texts in capital letters.
See ☞ **p.33.**

⑱ Space **(Space)**
Inserts space. **See** ☞ **p.34.**

⑲ ← ↑ ↓ → **(Cursor keys)**
Moves the cursor or highlighted items to up, down, right, or left.
See ☞ **p.42.**

Shift + ← ↑ ↓ → **(= Cursor jump)**
Moves the cursor directly to the beginning of the paragraph/line or the end of the paragraph/line. When selecting items, shows the start or last option.
See ☞ **p.42.**

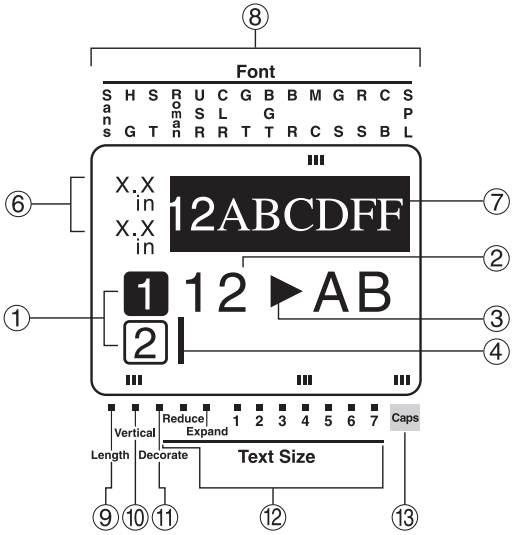
⑳ Return Column **(Select, Line break)**
Selects one of the options.
Starts a new line (line break).
See ☞ **p.12.**

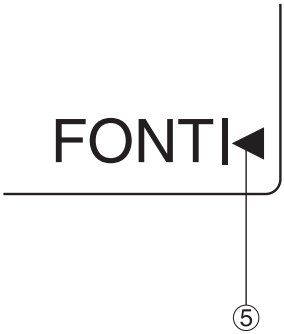
Shift + Return Column **(= New paragraph)**
Starts a new paragraph.
See ☞ **p.47.**

Display Indicators

Display indicators

<Text enter screen>





① **Line head icon**
(1 2 ... ☒, 1 2 ... ☒)
Appears on the line head to show the current line number. When there is a text(s) to be printed on the label, 1 and 2 appear on the line head. 1 and 2 appear when there is no texts on the line. ☒ and ☒ mean that you cannot print the line.
See ☞ **p.45.**

② **Confirmed texts (Example: 12AB)**
Texts to be printed on the label.

③ **Text mode change icon (▶)**
Appears when you change the text mode such as font or decorate.
See ☞ **p.56.**

④ **Cursor (|)**
A movable indicator on a display, marking the position at which a character can be entered, corrected, or deleted.
See ☞ **p.42.**

⑤ **Memory full icon (◀)**
Appears when the maximum number of letters (approx. 175 letters) are entered. You cannot enter any letters until you delete a part of or whole of the text.

⑥ **Print information**
Shows the tape width of the installed cartridge and expected length of the current label.
This information may not be displayed depending on the settings.
See ☞ **p.36.**

⑦ **Print image**
Shows the print image of the current label. This information may not be displayed depending on the settings.
See ☞ p.36.

⑧ **Font indicator**
Shows the font of the character under the cursor.

⑨ **Length indicator**
Lights when "Length" is selected.

⑩ **Vertical indicator**
Lights when "Vertical" is selected.

⑪ **Decorate indicator**
Lights when "Decorate" is selected.

⑫ **Text size indicator**
Shows the text size of the character under the cursor.
Numbers from 1 through 7 correspond to inches as follows:

1	2	3	4	5	6	7
0.08"	0.1"	0.2"	0.3"	0.4"	0.5"	0.7"

⑬ **CapsLock indicator**
Lights when the Shift key is pressed or when entering capital letters.

Switching display (Graphic)

Enter a text while displaying the text line, print image, length, and width of the label.

Display switches each time the [Graphic] key is pressed.

<Pattern 1> (Default)
Text you entered appears on the screen up to three lines. The print image and the length of the label are displayed.

[Graphic] key

<Pattern 2>
Text you entered appears on the screen up to two lines. The rough print image and the length/ width of the label are displayed.

[Graphic] key

<Pattern 3>
Text you entered appears on the screen up to four lines. Other information will not be displayed.

CAUTION!

- Display only switches when entering texts. Pressing [Graphic] does not affect the display of the menu screen.
  See ☞ "Display indicators" (p.20).
- When pattern 2 is selected, the reaction of the display may become slow.

MEMO

- Hold down the Shift key and press [Graphic] (= Preview) to scroll the print image on the entire screen.
  See ☞ "Viewing print image (Preview)" (p.36)
- Adjust the display level to the most comfortable eye level.
  See ☞ "Adjusting Display Level" (p.23)

Adjusting Display Level

Display level is adjustable at 11 different levels. Adjust the display level by pressing [Light] or [Dark] to the most comfortable eye level.

● Lightening the display

Display becomes lighter each time the [Light] key is pressed.

● Darkening the display

Display becomes darker each time the [Dark] key is pressed.

MEMO

The display level remains even after the power is turned off. To initialize the level, hold down the Shift key and press [Light] or [Dark].

Preparation

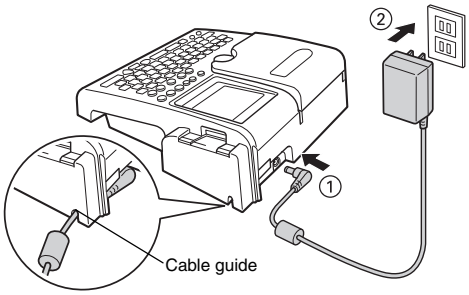
1. Connecting the AC adapter

Connect the AC adapter that comes with your LABEL PRINTER PRO to supply power from the electrical outlet (AC120V).

1 Connect the AC adapter to the connector on your LABEL PRINTER PRO firmly, and route the cord through the guide as shown below.

* Be sure to connect the adapter as far as it can go so as to supply power steadily.

2 Plug the other end of the AC adapter into the electrical outlet.



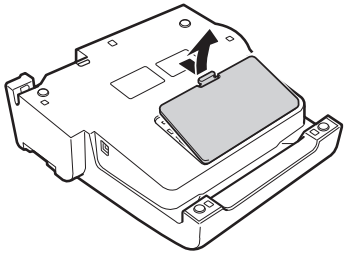
CAUTION!

- Unplug the AC adapter from both the device and the outlet after use. This may prevent possible accidents caused by tripping over the cord.
- When handling the AC adapter cord, be sure not to pull it forcibly or bend it repeatedly. This may break the cord.
- The safety feature of the device may cut the circuit of the AC adapter when the plug shorts out or on other occasions.
- LABEL PRINTER PRO warranty does not apply to the AC adapter.

2. Installing the batteries

Your LABEL PRINTER PRO also works with batteries when an electrical outlet is not available. Six AA alkaline batteries are required.

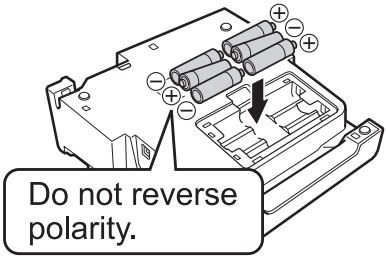
1 Remove the battery cover.
Take off the cover while releasing the tab.



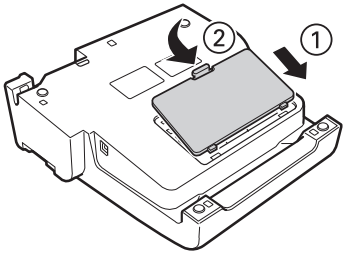
CAUTION!

Be sure to turn off the power before installing the batteries.

2 Insert the batteries.
Insert six AA alkaline batteries with the correct polarity as shown.



3 Close the battery cover.
Adjust the two tabs to the holes of the main unit, and close the battery cover firmly until it clicks.



CAUTION!

- Use AA alkaline batteries only. Other types of battery have short lives, and the message to notify the user that the battery is running out may not be displayed.
- You can print labels with batteries installed, however, it is strongly recommended that you connect the AC adapter before printing.
- Make sure to use the dedicated AC adapter only.

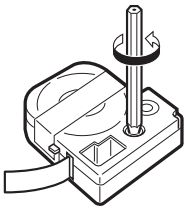
MEMO

- Print speed becomes slower when the AC adapter is not connected.
- Printing on the wide tape will temporarily cause the device to consume a large amount of current, and can cause the device to display "Change Batteries" even if new batteries are installed. This is normal operation for the device.
- Print speed becomes slower when the batteries are running low, then "Change Batteries" appears on the display. Replace all the batteries with new ones or connect the AC adapter immediately, otherwise the LABEL PRINTER PRO may turn off in the middle of the operation or during printing.
- New AA alkaline batteries will supply enough power for the device to print on one tape cartridge (0.7" x 26') at room temperatures. However, when you operate the device in cold places or print on wide tapes, the life span of the batteries becomes shorter. You are recommended to use the AC adapter as much as possible. Use the dedicated AC adapter only.
- Make sure to turn off the power after use.
- If your LABEL PRINTER PRO is not to be used for long periods, remove the batteries from the device to avoid possible leakage.
- Dispose of the used batteries according to your local regulations.
- LABEL PRINTER PRO contains a lithium battery to save text, files, and extended characters. See the sticker on the backside of the main unit as a guide for the timing and replace the lithium battery. To replace the battery, consult the local dealer or our customer center. Replacement is performed at your expense.

3. Installing tape cartridges

1 Tighten the ink ribbon

Insert a pencil or a similar tool into the hole of the tape cartridge and turn it slightly toward the direction of the arrow.

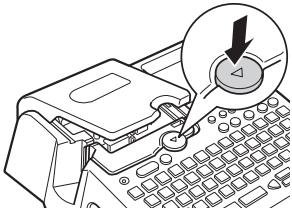


2 Press the top cover button

Press the button to open the top cover slightly.

CAUTION!

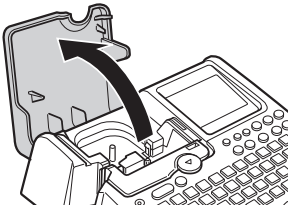
Make sure that the power is turned off beforehand.



3 Open the top cover

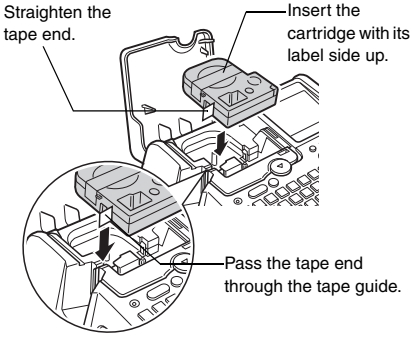
CAUTION!

- Do not open the top cover forcedly. Top cover stops when it meets the stopper.
- Do not lift up the device by holding the top cover.

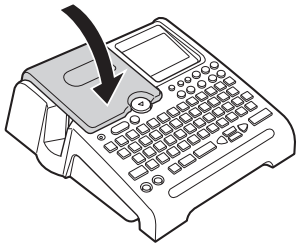


4 Install the tape cartridge

Insert the tape cartridge fully with its label side up until the cartridge is secured by the fixing tab of the main unit. When installing a new tape cartridge or one with an extended tape end, straighten the tape end and pass it through the tape guide.



5 Close the top cover.
Hold down the cover gently to close.



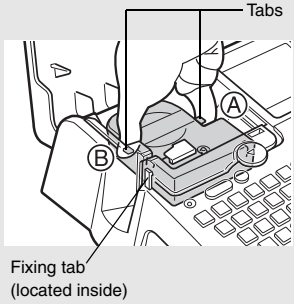
CAUTION!

If you close the top cover without inserting the tape cartridge, your LABEL PRINTER PRO or the tape cartridge may be damaged.

MEMO

Removing the tape cartridge

To ensure proper printing, the tape cartridge is secured to the main unit firmly.
To remove, place your fingers in the space provided on both sides of the cartridge as shown in the figure, lift the tab indicated by (A) first, then lift the tab indicated by (B), and pull out the cartridge.



CAUTION!

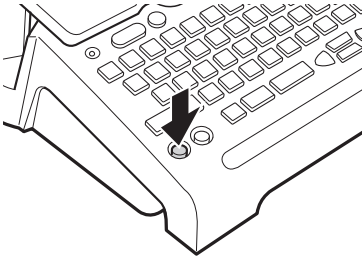
- LABEL PRINTER PRO supports six different width of the tape cartridges (204,206,209, 212,218,224). Number of lines printed on the tape varies depending the tape width.
  See "Maximum number of lines" (p.45)
- Tape cartridges should be stored in a dark cold place away from direct sunlight, excessive temperature and humidity, and dust.
- It is recommended that you use the tape cartridge as soon as possible after opening.
- When installing the tape cartridge, insert it firmly as far as it can go.

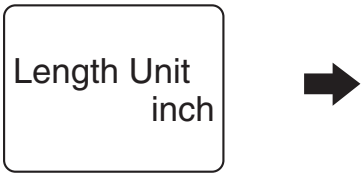
4. Turning the power on

Observe the following precautions before you turn the power on.

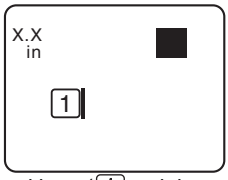
- Is the AC adapter connected to the LABEL PRINTER PRO and the electrical outlet?
- Are the batteries installed properly? (When operating the device with the batteries alone.)

1 Press (ON/OFF).





* Selected length unit is displayed on the screen for approx. one second.



* Line head icon (1) and the cursor will appear.

Text you have entered remains even after turning the power off. When the device is turned on again, the text appears after the selected length unit is displayed. Selected options for the settings such as font and text size are also indicated.

See "Display indicators"(p.20)

MEMO

Auto power-off

If there is no activity for approx. five minutes, the LABEL PRINTER PRO automatically shuts down in order to save battery power. (Text you have entered remains.)

Press (ON/OFF) again to restore.

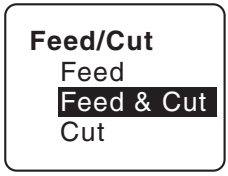
Auto power-off is disabled during creating/editing user's symbols, or when the device is connected both to a computer (PC link) and an electrical outlet.

In order to save battery power, it is recommended that you turn off the power manually when the device is not to be used.

5. Feeding the tape

After installing the tape cartridge, make sure to feed the tape so as to take up the slack of the tape.

1 **Hold down the Shift key and press Print (= Feed/Cut).**
Feed/Cut menu appears.



2 **Press ↑ or ↓ to select "Feed" or "Feed/Cut".**

3 **Press Return.**
When "Feed" is selected, the device feeds the tape 0.7". When "Feed/Cut" is selected, the device feeds and cuts the tape automatically.

Next

You are now ready to proceed to the next step.
Follow the procedures described on the following pages to learn how to create labels.
See ☞ "Creating the Sample Label" (p.32)

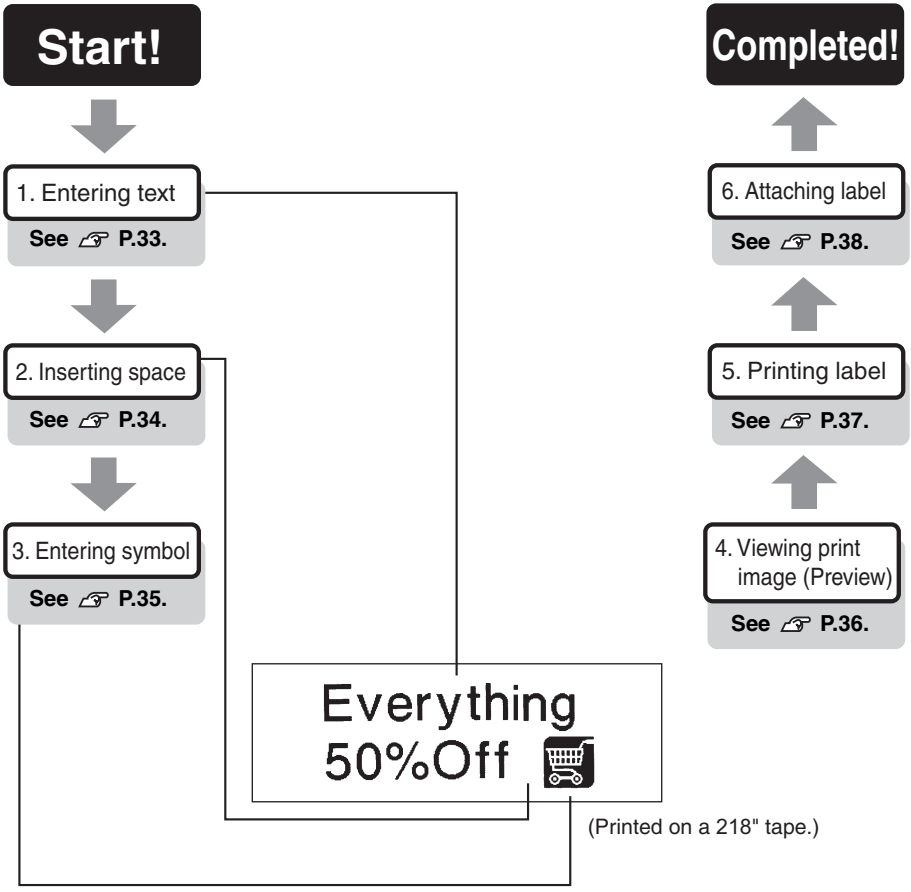
Basic Operations 1

- Creating basic labels -

This section describes LABEL PRINTER PRO basic operations.
You will learn how to enter text, print, and create simple labels.

Creating the Sample Label
(from entering text to completion)

Create the sample label and learn the basic operations by following the procedures described on the following pages.



■ Let's start!

1. Entering text

To enter text in capital letters or insert characters written on the keyboard keys in yellow, you need to use the [Shift] key.

Ex.:

1 Enter "50%Off".

Press [%5], [.0].
Hold down the [Shift] key and press [%5] (= %).
Hold down the [Shift] key and press [O].
Press [F] twice.

MEMO

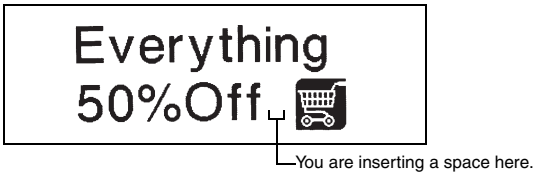
Caps Lock

Hold down the [Shift] key and press [Caps Lock] to enter the text in capital letters.
In this mode, CapsLock indicator will light up. To cancel this mode, hold down the [Shift] key and press [Caps Lock] again.

2. Inserting space

A space you enter is indicated by "␣", and it will be a one-byte blank on the printed label.

Ex.:



1 **Press** Space.
A space is inserted.

"␣" is displayed on the text enter screen, however, the symbol will not appear on the printed label.

REFERENCE

Two-byte space

With the LABEL PRINTER PRO, you can select the size of the space from one byte or two byte. Size of a two-byte space equals to approximately the size of two characters combined.

To insert a two-byte space, press Sym. B and select "Mark" - "␣␣".

If the "SPACE" - "Proportional" setting is set to "Off", however, the size of one-byte space becomes equivalent to that of two characters.

See "Space" (p.78).

	Text enter screen	Printed with the "Proportional" setting "On"	Printed with the "Proportional" setting "Off"
One-byte space	1 Space␣size	Space size Space size	S p a c e s i z e S p a c e s i z e
Two-byte space	2 Space␣␣size		

3. Entering symbol

Ex.:

1 **Press** (Sym. A)**.**
"Symbol-A" menu appears.

2 **Press ↑ or ↓ to select "Shop".**

3 **Press Return.**
Symbols included in the "Shop" group appears.

4 **Press ← or → to select "".**

5 **Press Return.**

MEMO

- To cancel the operation, press Esc Bs, Sym. A, or Sym. B.
- A menu or a symbol you selected comes at the head of other options from the next time (learning function).
- To enter two-digit numbers, select "DoubleFigure" from the symbol menu.
  See "Printing two-digit numbers vertically" (p.70).
- Press Sym. B and select "Mark" to show the | and ⌴ icons. Selecting one of these icons works as follows:

| : Ruled-line icon
Draws ruled lines.
See "Frame" (p.72).

⌴ : Two-byte space
Inserts a two-byte space.
See "Two-byte space" (p.34).

4. Viewing print image (Preview)

LABEL PRINTER PRO can display the print image of the label on the screen so that you can check the image before you actually print the label. This feature prevents possible misprint and waste of tapes.

1 Make sure that the tape cartridge is installed properly.
To display the print image precisely, make sure that the tape width of the installed tape cartridge is appropriate to your text.

2 Hold down the Shift key and press [Graphic] (= Preview).
The print image scrolls on the entire screen.
Press any of the following keys to temporarily stop the scrolling text: Space, ←, ↑, ↓, →
Text remains stopped while the key is pressed.
Refiolease the key to scroll the text again.

MEMO

To cancel the preview, press Esc Bs or Return.

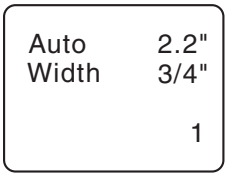
CAUTION!

- Preview only appears while entering text or fixed form.
- "No Tape!" will appear on the screen if the tape cartridge is not installed or not installed properly. Preview will not be displayed at this time.
- When you entered too many lines of text to be printed on the tape, "Line Over!" will appear on the screen. Preview will not be displayed at this time.
- Preview should be used as a guide. It may not match the printed label exactly.

5. Printing label

Before you start printing, make sure that the tape cartridge is correctly installed and the AC adapter is connected properly.

1 Press (Print).
Expected length and width of the label will be displayed after "Wait" appears. Printing is started subsequently.



LABEL PRINTER PRO automatically cuts the tape when the printing is completed. To cancel the printing, press (Esc Bs).

MEMO

- When you press (ON/OFF) during printing, the device cuts the tape and turns the power off.
- When you print the same label repeatedly, the total number of the printed labels will appear on the screen.
- The total number of the printed labels returns to "1" when you change or modify the text (characters or the style). The number is counted up to "100", then returned to "1".
- LABEL PRINTER PRO makes sounds when ejecting tapes. This is normal operation for the device.
- To carry out the extra print (repeat, enlarge, or auto-cut off), press (Rpt. Enl.).
  See "Extra Print Functions (Repeat, Enlarge)" (p.111).

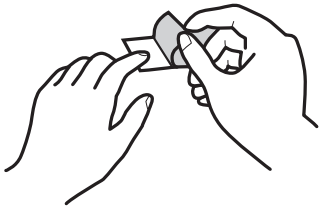
CAUTION!

- Time before the printing starts may become longer if you entered complex texts.
- Do not insert your fingers in the tape eject slot.
- Do not pull the tape until the printing is completed.
- Do not open the top cover during printing. When the top cover is opened, a built-in protection circuit turns the power off and interrupts the printing.
- Make sure that the ejected tape does not block the tape ejection slot.
- "No Tape!" will appear on the screen if the tape cartridge is not installed or not installed properly.
- When you entered too many lines of text to be printed on the tape, "Line Over!" will appear on the screen. In that case, delete some lines or install a wider tape.
- Length of the label shown on the screen is a guide and may not match the length of the printed label exactly.
- LABEL PRINTER PRO does not print texts longer than 52.5'.

6. Attaching label

Peel off the backing sheet of the label to attach.

1 Peel off the backing sheet.



2 Attach the label and rub it firmly.

MEMO

You can round off the corners of the printed labels.
See "Rounding Off the Corners" (p.50)

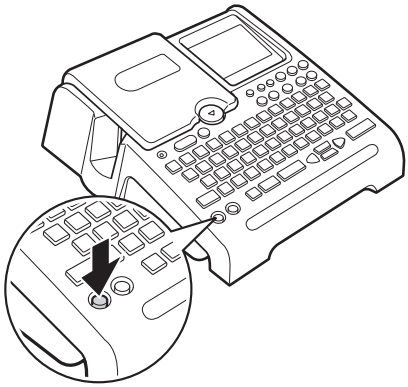
CAUTION!

- You might find it hard to peel off some of the backing sheets depending on the tape types.
- Keep the labels away from a solvent or a thinner, and do not rub the labels with a pencil or similar sharp tools. Otherwise the texts printed on the labels may be thin and the labels may tear or peel.
- Characters printed on the white ink labels turn black when rubbed with a metal object. Rub the labels with a rubber eraser to restore.
- Labels may peel off easily when attached to rough surface.
- Labels may peel off easily or not adhere well when attached to wet, oily or dusty surfaces.
- If you attach the label to the object that has writing on the surface with a pen, the pen ink may leak in and damage the label.
- Avoid exposing labels to rain or sunlight. Do not place them in an outdoor location.
- Do not attach labels on people, living things, public buildings or properties of others.
- **About labels**
  Before attaching labels, be sure to check the purpose of use and the material of the adhered surface. Depending on the material, environmental conditions, etc., following problems may occur.
  • Color of the labels change
  • Labels come off
  • Texts on the label wear off
  • Cannot peel off the labels
  • Glue remains on the adhered surface
  • The adhered surface absorbs the color of the label
  • The adhered surface is damaged
  We shall not be liable for any damages, losses, costs, or expenses arising from these problems.

Turning the Power Off

1 Press (ON/OFF).

When LABEL PRINTER PRO is turned on, press (ON/OFF) to turn the power off.
Text you have entered remains even after turning the power off.
The text appears when the device is turned on again.



2 Disconnect the AC adapter.

Disconnect the AC adapter both from the electrical outlet and the device.
Wind the AC adapter cable to store.

CAUTION!

- If your LABEL PRINTER PRO is not to be used for long periods, remove the batteries, AC adapter, and tape cartridge from the main unit. Texts, files, and user's symbols you entered are saved even after the device is turned off.
  If a battery is left inside the device for extended period of time, liquid from the battery may leak. Follow the instructions given on the package of the battery and replace it before the expiry date.
- LABEL PRINTER PRO contains a lithium battery to save texts, files, and use's symbols. See the sticker on the backside of the main unit as a guide for the timing and replace the lithium battery. To replace the battery, consult the local dealer or our customer center. Replacement is performed at your expense.

NEXT

This is the end of "Basic Operation 1". In "Basic Operations 2", you will learn how to create the labels with multiple lines or paragraphs.
"Additional Functions" gives you useful information that can assist you create your own labels more easily and more effectively.

Basic Operations 2

- Creating labels for various purposes -

In this section, you will learn to create the labels with multiple lines or paragraphs so that you can arrange the layout as you like.
You will also learn how to round off the corners of the labels.

Editing Text

You can edit the text by inserting or deleting characters.

Using the cursor keys

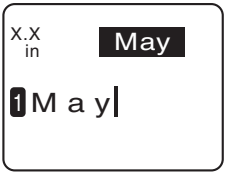
A vertical line " | " appears on the display is called cursor. The cursor indicates the position at which a character can be entered or deleted.

Press the cursor keys ◀ ▲ ▼ ▶ to move the cursor. Maximum number of the characters displayed on the screen is 6 columns x 4 lines. When you keep on entering characters beyond this limit, characters you entered in the beginning will not be displayed on the screen. In this case, move the cursor to check the entire text.

Cursor key	Cursor moving direction
▶	Moves the cursor one character to the right. Hold down the key to move the cursor at high speed.
◀	Moves the cursor one character to the left. Hold down the key to move the cursor at high speed.
▲	Moves the cursor to the previous (upper) line. Hold down the key to move the cursor at high speed.
▼	Moves the cursor to the next (lower) line. Hold down the key to move the cursor at high speed.
Shift + ◀	Moves the cursor to the beginning of the line. When the key is pressed more than once, the cursor jumps to the beginning of the previous line each time the key is pressed.
Shift + ▶	Moves the cursor to the end of the line. When the key is pressed more than once, the cursor jumps to the end of the next line each time the key is pressed.
Shift + ▲	Moves the cursor to the beginning of the paragraph. When the key is pressed more than once, the cursor jumps to the beginning of the previous paragraph each time the key is pressed.
Shift + ▼	Moves the cursor to the end of the paragraph. When the key is pressed more than once, the cursor jumps to the end of the next paragraph each time the key is pressed.

To perform the operation indicated by Shift + , hold Shift and press the specified key.

Entering text



Use the character keys to enter the texts.

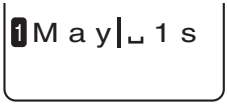
See "Creating the Sample Label" (p.32)

Deleting/Inserting text

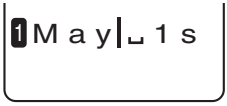
Move the cursor to the right of the character and press (Esc Bs) to delete the character. To insert characters, move the cursor to the position where you want to insert them.

Ex. :Delete "May" from "May 1st." and insert "June" instead. The text should read "June 1st.".

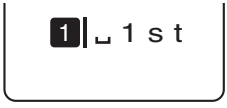
1 Press ◀ or ▶ to move the cursor to the right of "y".



2 Press (Esc Bs) three times to delete "May".



(Esc Bs) x 3



The cursor comes to the beginning of the line.

3 Enter "June".

CAUTION!

If the total number of the characters exceeds the limit (approx. 175 characters) when inserting the characters, the memory full icon [◀] appears at the end of the text. Characters beyond the limit will be deleted from the end of the text automatically.

MEMO

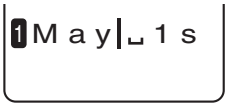
If you delete the characters by mistake, press (Undo) immediately to restore.

Undoing the deletion

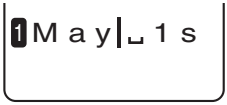
If you delete the characters by mistake, press (Undo) immediately to restore.

Ex. :Delete "May" from "May 1st." and then restore.

1 Press ◀ or ▶ to move the cursor to the right of "y".



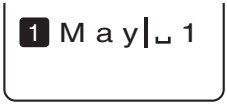
2 Press (Esc Bs) three times to delete "May".



(Esc Bs) x 3

3 Press (Undo).

Text you have deleted appears character by character each time the (Undo) key is pressed.



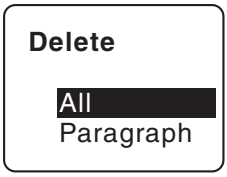
MEMO

- If you press any of the keyboard keys other than the following seven keys (◀ ▲ ▼ ▶ Shift Caps Lock [Graphic]) immediately after you delete the text, undo feature will be disabled and the characters will not be restored.
- Maximum of 30 characters will be restored.
- You can also undo "Delete all" or "Delete paragraph".

Deleting all the text

The text you entered remains even after turning the power off. To delete all the text, select "Delete all" manually.

1 **Hold down the Shift key and press Esc Bs (= Delete).**
"Delete" menu appears.



2 **Select "All", and press Return.**
The display goes out for a moment, and all the text will be deleted. The display then returns to the text enter screen.

To delete the paragraph with the cursor, select "Paragraph".
See "Deleting specific paragraphs" (p.49)

CAUTION!

Please note that when you select "All" from the "Delete" menu, various settings included within the text will also be deleted.

MEMO

- Press Undo immediately to restore the deleted characters.
- "Delete all" does not clear the following information.
  Files, user's symbols, set values for various settings, items that the device has learned such as symbols, text that the user was entering, selected pattern of the display
- In order to change all the settings to their default, you need to initialize your LABEL PRINTER PRO.
  See "Resetting LABEL PRINTER PRO" (p.124)

Adding New Lines (Line Break)

To start a new line, press [Return] to insert a line break.

Maximum number of lines

LABEL PRINTER PRO supports tape cartridges ranging from 0.16" to 0.9" of width. Number of lines you can enter varies depending on the width of the installed tape cartridge.

Tape width	204	206	209	212	218	224
Number of lines	Up to one	Up to two	Up to three	Up to four	Up to six	Up to eight

MEMO

- Line head icon appears at the beginning of the line to show which line you are editing. When there is text(s) to be printed on the label, 1, 2...⊠ and 1, 2...⊠ appear on the line head. 1, 2...⊠ and 1, 2...⊠ appear when there is no texts on the line.
- ⊠ and ⊠ mean that you cannot add new lines any more. When you press (Print) at this time, "Line Over!" will be displayed. In order to print the label, delete the line with the ⊠ icon.

See "Message On the Display (Line Over!)" (p.135)

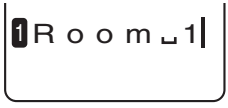
Starting a new line

Press [Return] at the end of the line to start a new line (line break).

Ex.:Entering three lines of text.

```
Room 1
Room 2
Room 3
```

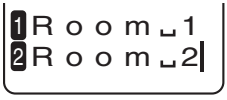
1 Enter "Room 1" and press [Return].



Return

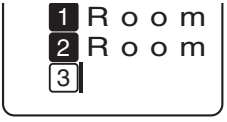
The line head icon appears at the beginning of the second line.

2 Enter "Room 2" and press [Return].



Return

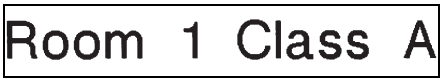
The line head icon appears at the beginning of the third line. Enter "Room 3" in the line.



Moving the text to the next line

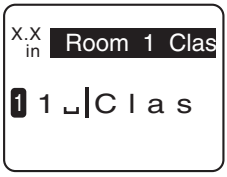
When you insert a line break in the middle of the text, the characters to the right of the cursor move to the next line.

Ex. :Dividing "Room 1 Class A" in two lines.



Insert a line break.

1 Press ◀ or ▶ to move the cursor to the right of the space next to "1".



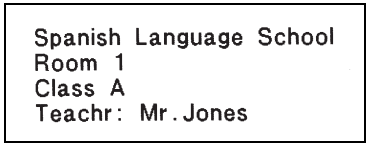
2 Press Return.

The line head icon appears at the beginning of the second line, and "Class A" moves to the second line.

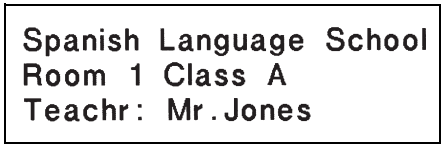
Joining the two lines

Move the cursor to the right of the line head icon to move the text to the upper line.

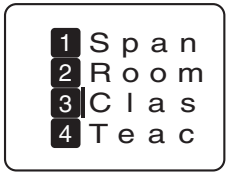
Ex. :Joining the two lines.



Remove the line break.



1 Move the cursor to the right of the line head icon 3.



2 Press Esc Bs.

"Class A" in the third line joins the text in the second line. "Teacher: Mr. Jones" in the fourth line moves to the third line.

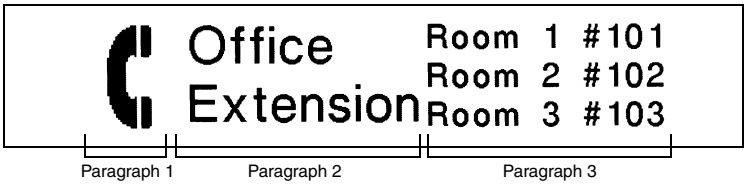
MEMO

- Place the cursor at the beginning of the fourth line and press Esc Bs to move the text in the line to the third line. The fourth line will automatically be deleted.
- The line head icon 1 [1] on the first line of the first paragraph will not be removed.

Adding New Paragraphs

The label below consists of three blocks. Each block is called paragraph in this manual, and each paragraph is made with a group of lines or a single line. By dividing a text into several paragraphs, you can change the number of lines or the style of the text on a paragraph-by-paragraph basis.
You can divide a text into 10 paragraphs at a maximum within one label.

A label with three paragraphs



The paragraphs are placed horizontally when printed, however, they are aligned vertically on the display.

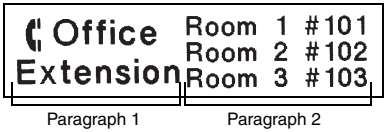
[On the display]

Paragraph 1	1	
Paragraph 2	1	Office
	2	Extension
Paragraph 3	1	Room␣1␣#101
	2	Room␣2␣#102
	3	Room␣3␣#103

Starting a new paragraph

Hold down the Shift key and press Return at the end of the paragraph to start a new paragraph.

Ex. **:Inserting a text in two paragraphs.**

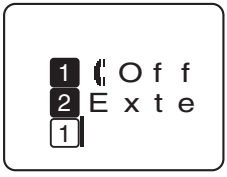


1 Enter the text in paragraph 1.

Enter "Office" in the first line and "Extension" in the second line.

2 Place the cursor ar the end of the text, press Shift + Return.

A new paragraph is created. The line head icon 1 will appear at the beginning of the new paragraph.

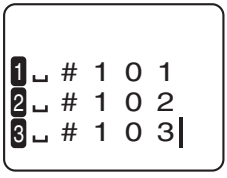


3 Enter the text in paragraph 2.

Enter the text as follows:

Fist line: Room␣1 #101
Second line: Room␣2 #102
Third line: Room␣3 #103

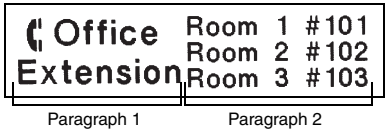
To start a new line, press Return at the end of the line.



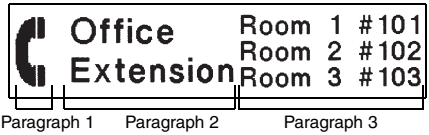
Dividing into paragraphs

When you divide a text into paragraphs, the text at the right of the cursor moves to the next paragraph.

Ex. **:Adding a new paragraph.**



Start a new paragraph at the right of "" in paragraph 1.



1 Move the cursor to the right of "" on the first line in paragraph 1.

2 Press Shift + Return.

The text to the right of the cursor moves to the new paragraph. The cursor moves to the beginning of the new paragraph. The text in paragraph 2 moves to paragraph 3.

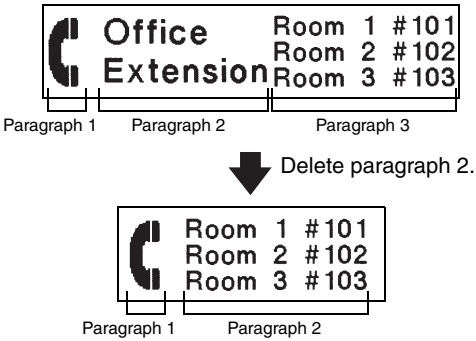
MEMO

- A newly-created paragraph takes over the text style of the previous paragraph. **See ☞ "Function description (Style)"(p.69)**

Deleting specific paragraphs

When you delete the unnecessary paragraphs, not only the text but also the attribute such as the style and the text mode specified to the paragraph will also be removed.

Ex. :Deleting paragraph 2.

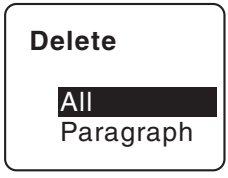


1 Move the cursor to paragraph 2.

Put the cursor in anywhere within the paragraph you want to delete.

2 Press Shift + Esc Bs (= Delete).

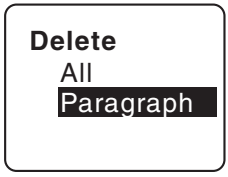
"Delete" menu appears.



CAUTION!

When you select "All" and press Return, all the text you entered will be deleted.

3 Press ←, ↑, ↓, or → to select "Paragraph".



4 Press Return.

The display goes out for a moment, and the paragraph will be deleted.
The display then returns to the text enter screen.

MEMO

- Please note that when you select "Paragraph" from the "Delete" menu, all the text included within the paragraph will be deleted.
- When you delete a paragraph by mistake, press Undo immediately to restore. If you press any of the keyboard keys other than the following seven keys (← ↑ ↓ → Shift Caps Lock [Graphic]) immediately after you delete the text, undo feature will be disabled and the characters will not be restored.
- To cancel deleting the paragraph in the middle of the operation, press Esc Bs.

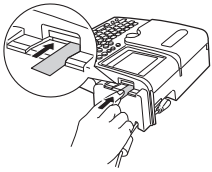
Rounding Off the Corners

Your LABEL PRINTER PRO contains PeelGuard™ that allows you to round off the corners of the labels. This feature lets the labels look better and prevents them from being peeled off.

For 209, 212, and 218 tapes

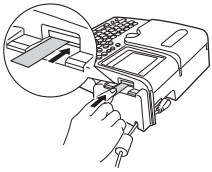
Rounds off one corner at a time.

1. **Set one side of the label against either right or left guide of the PeelGuard™, and insert the label as far as it will go.**



2. **Pull out the label when you hear the clicking noise several times.**

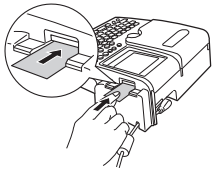
3. **Set the other side of the label against the guide, and round off the corner in the same manner.**



For 224 tapes

Rounds off two corners at the same time.

1. **Set both sides of the label against the PeelGuard™, and insert the label as far as it will go.**



2. **Pull out the label when you hear the clicking noise several times.**

MEMO

- When inserting the label, be sure to keep it straight against the PeelGuard™ guide.
- The labels should be inserted as far as they will go.

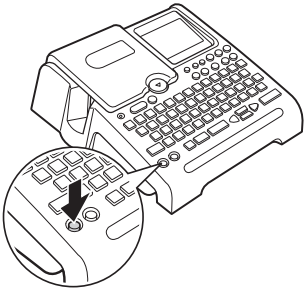
CAUTION!

- PeelGuard™ will not be activated during printing or when the top cover is opened.
- Once you insert the label to the PeelGuard™, do not move the label up and down. Otherwise the label may stick and the corners may not be rounded.
- Do not insert mechanical pencils, clips, or any other objects other than the labels into the PeelGuard™ slot. This may damage the PeelGuard™.

Cleaning PeelGuard™

Paper dust is collected in the PeelGuard™ tray. Remove the tray and clean it up regularly.

1 Press (ON/OFF) to turn the power off.

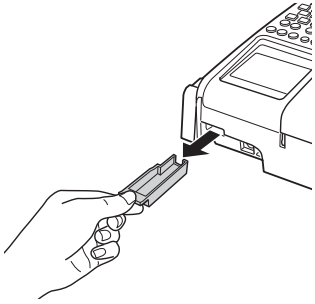


⚠ WARNING

Be sure to turn the power off before removing the PeelGuard™ tray. Also, you must not insert your fingers inside the PeelGuard™ during cleaning, or you might cut your fingers.

2 Remove the PeelGuard™ tray.

Pull out the PeelGuard™ tray as shown in the figure below.

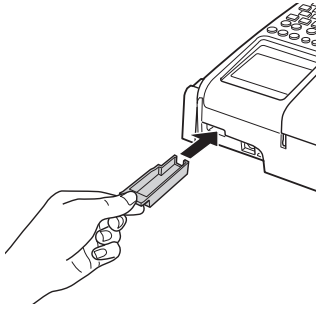


3 Throw away the paper dust.

Clear the paper dust in the tray with a cotton swab.

4 Insert the PeelGuard™ tray.

Insert the tray into the main unit.



MEMO

- New LABEL PRINTER PRO may have paper dust in the tray. This is because of the inspection carried out during the production process.
- When you use the PeelGuard™ over the long term, the blade of the PeelGuard™ becomes blunt. To replace the blade, consult the local dealer or our customer center. Replacement is performed at your expense.

Additional Functions

- Using LABEL PRINTER PRO freely and creatively -

This section describes how to make better use of the function keys. You will learn to change the orientation of the label, improve the appearance of the label, and save the entered text.

Improving the Appearance of the Label
- Using the decoration functions -

Improve the appearance of the label by changing the font and the size of the texts. To change the appearance of the label press Length, Style, or Mode then select a function from the displayed menu.

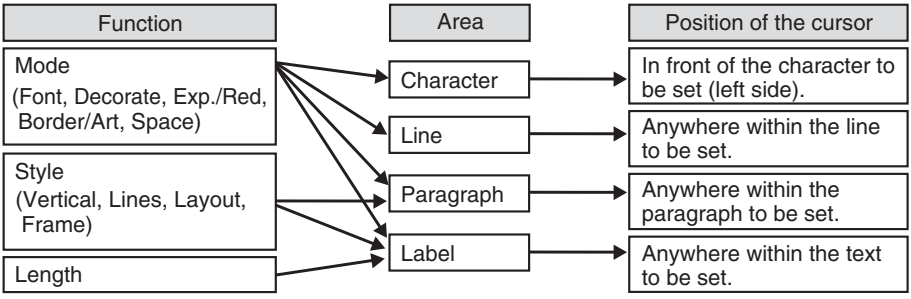
Functions of each key

Depending on the specifiable effective area, functions are divided into File/Style/Mode keys.

Function key	Item	Function	Description
Mode	Label Character Line Paragraph	Font	Sets the font.
		Decorate	Selects Outline, Shadow, Shadow Outline effects and Italic, Bold, Italic and Bold.
		Exp./Red.	Expands or reduces the text size.
		Border/Art	Sets Correction line, Underline, Art, and Borders.
		Space	Reduces and increases inter-character spacing.
Style	Label Paragraph	Vertical	Sets vertical, orientation.
		Lines	Sets the text size line by line.
		Layout	Sets the proportion of each line.
		Frame	Sets Frames and Tables.
Length	Label	Cassette	Sets the length adapted to the label depending on the usage.
		MD	
		Mini DV	
		8mm Video	
		VHS	
		3.5FD	
		CD Case	
		Binder	
		Off	
		1.0" - 15.0"	Sets the length of the printed label.

Effective area and the position of the cursor

To select a function, move the cursor to the effective area before pressing the function key. The position of the cursor determines the text to apply the function. The position at which the cursor should be placed differs depending on the function or the item being set. Refer to the table below for the position of the cursor.



Setting functions

Functions can be set through the following procedure:

1 Place the cursor.

When applying the function to a character, place the cursor in front (left side) of the character.

When applying the function to a whole line or a paragraph place the cursor in the line or paragraph respectively.

When applying the function to the entire text, place the cursor anywhere within the text.

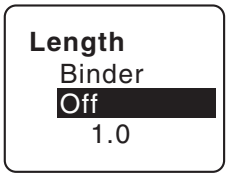
See "Effective area and the position of the cursor" (p.54).

2 Press a function key. (Length, Style, or Mode)

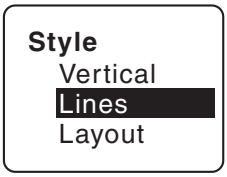
3 Select a function.

Select a function using ↑ or ↓ and press Return.

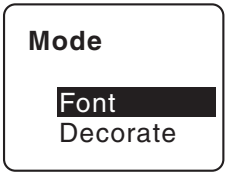
Length



Style



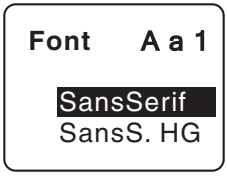
Mode



4 Set the options for each function.

Select an option using ↑ or ↓ and press Return.

Ex: The "Font" option of "Mode"



5 Select "End?"

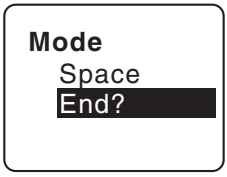
Once a function has been set, the next function within the same menu appears.

A different function can be set within the same menu (in this case "Mode"). Select a function using ↑ or ↓ and press Return.

Follow the same steps as in 4 and 5.

Once the setting is complete select "End?" and press Return.

Proceed to step 6.

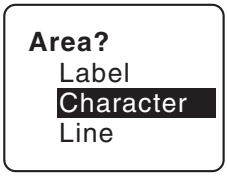


MEMO

To set a different function (in this case "Style" or "Length"), return to the text enter screen after step 6 and press another function key.

6 Set the effective area of a set function.

Set the effective area of a set function.
Referring to the table below set a effective area using ↑ or ↓ and press Return.
Once the setting is complete, the text enter screen will be displayed again.
(When selecting "Length", the effective area screen will not be displayed and the text enter screen appears again at step 5.)



● **When setting the "Mode"**

Label	Applies the selected style to the whole text (nothing changes on the text screen).
Character	▶ (Text mode change icon) appears where the cursor is positioned. The selected mode applies from the character immediately after ▶ to the end of the line (or until the next ▶).
Line	▶ (Text mode change icon) is displayed at the beginning of the line where the cursor is placed, the selected mode applies from the characters after ▶ until the end of the line (or until the next ▶).
Paragraph	▶ (Text mode change icon) is displayed on the first line of the paragraph where the cursor is placed, the selected mode applies from the characters after ▶ until the end of the paragraph.

● **When setting the "Style" function**

Label	The selected style applies to the whole text (nothing changes on the text screen).
Paragraph	The selected style applies to the paragraph where the cursor is positioned (nothing changes on the text screen).

● **When setting the "Length" function**

The effective area screen is not displayed (nothing changes on the text enter screen).

MEMO

- The ▶ (Text mode change icon) is not printed.
- ▶ can be deleted. Deleting ▶ will apply the settings of the previous ▶.
  If there is no ▶ applied to the text, the settings of "Label" or the default settings apply.
- The factory settings of each function (default) can be checked on pages "List of "Length" Menu" (p.52), "List of "Style" Menu" (p.58), and "List of "Mode" Menu" (p.64). These settings can be changed using "Setting Initial Settings (Default Settings)" (p. 117).
- Pressing a function key or Esc Bs while performing settings returns to the previous screen. Repeating this operation cancels the settings and takes you back to the text enter screen.
- You can check part of the settings on the indicators.
  See "Display Indicators" (p.20)
  Settings can also be checked by pressing the function key of each function and displaying the options of the function. The inverted option is the current setting.
- Characters may be distorted due to effects, text size or a high number of strokes.

List of "Length" Menu (English)

The default setting is indicated by Bold .

Menu	First option		Second option
Length **Length** You can specify the length of the label. **See ☞ p.68.**	Cassette	MD ▶	**Left**
	Mini DV	8mm Video	Center
	VHS	3.5FD	Right
	CD Case	Binder	
	Off		
	1.0" - 15.0"		

Lista del menú "Longitud" (Español)

El ajuste predeterminado se indica mediante Negrita .

Menú	Primera opción		Segunda opción
Longitud **Longitud** Puede especificar la longitud de la etiqueta. **See ☞ p.54.**	Casete	MD ▶	**Izq.**
	Mini DV	8mm Vídeo	Centro
	VHS	3.5FD	Der.
	CD Melta	Carpeta	
	Desactivar		
	1.0" - 15.0"		

List of "Style" Menu (English)

The default setting is indicated by Bold .

Menu	First option	Second option
Style		
Vertical ▶	On **Off**	
Vertical You can set the orientation of the characters. **See ☞ p.69.**		
Lines ▶	**Equal**	
Equal You can set the same text size for each line. **See ☞ p.71.** **Auto format** You can set the text size of each line to be displayed as a combination of pictographs. **See ☞ p.71.**	1 Line ▶	**(Auto format)** 1 Line **1a** 1b 1c 1d
	2 Lines ▶	2 Lines **2a** 2b 2c 2d 2e 2f 2g 2h
	3 Lines ▶	3 Lines **3a** 3b 3c 3d 3e 3f 3g 3h 3i 3j 3k
	4 Lines ▶	4 Lines **4a** 4b 4c 4d 4e
	5-8 Lines	

Menu	First option	Second option
Style		
Layout ▶	**Left** Center Right	
Frame ▶	**Off**	
Table ▶		**01** 02 03 04

Layout
You can set the alignment of the characters of each line.
See p.72.

Table
You can create table labels that look like pictographs.
See p.72.

Menu	First option	Second option
Style		
End? ▶	Area?	
End? See ☞ p.56.	Label	
	Paragraph	

Lista del menú "Estilo" (Español)

El ajuste predeterminado se indica mediante Negrita .

Menú	Primera opción	Segunda opción
Estilo		
Vertical ▶	Activar **Desactivar**	
Vertical Puede definir la orientación de los caracteres. **See ☞ p.69.**		
Líneas ▶	**Igual**	
Igual Puede definir el mismo tamaño de texto para cada línea. **See ☞ p.71.**	1 línea ▶	**(Formato automático)** 1 línea **1a** 1b 1c 1d
Formato automático Puede indicar que el tamaño del texto de cada línea se muestre como una combinación de pictografías. **See ☞ p.71.**	2 líneas ▶	2 líneas **2a** 2b 2c 2d 2e 2f 2g 2h
	3 líneas ▶	3 líneas **3a** 3b 3c 3d 3e 3f 3g 3h 3i 3j 3k
	4 líneas ▶	4 líneas **4a** 4b 4c 4d 4e
	5-8 líneas	

Menú	Primera opción	Segunda opción
Estilo		
Diseño ▶	Izq.	
	Centro	
	Der.	
Marco ▶	Desactivar	
Tabla ▶	01	02 03 04

Diseño
Puede definir la alineación de los caracteres de cada línea.
See p.72.

Tabla
Puede crear etiquetas de tabla que parezcan pictografías.
See p.72.

Menú	Primera opción	Segunda opción
Estilo		

¿Fin? ▶

¿Fin?
See ☞ p.55.

¿área?

Etiqueta

Párrafo

List of "Mode" Menu (English)

The default setting is indicated by Bold .

Menu	First option	Second option
Mode		
Font ▶	**SansSerif**	SansS. HG
	SansS. ST	Roman
	US Roman	CL Roman
	Gothic	BoldGothic
	BR	Mincho
	Gyosho	Reisho
	CB	Script PL
Decorate ▶	**Decorate1**	**Decorate2**
	O.Line ▶	Italic
	Normal	**Normal**
	Shadow	Bold
	S + O	I + B
Exp./Red. ▶	Small1	Small2
	Reduce	**Normal**
	Expand	
Border/Art ▶	C.Line	U.Line
	Off	Border
	Round	Art
	B.Art	R.Art

Font
You can set the text font.
See p.55.

Decorate
You can decorate the text.
See p.56.

Exp./Red.
You can expand (reduce) the text size in relation to the base character.
See p.55.

Border/Art
You can set underline, surrounding borders, art, etc.
See p.55.

Menu	First option	Second option
Mode		
Space ▶	None ▶	**Proportional**
	Narrow	**On**
	Normal	Off
	Wide	
End? ▶	**Area?**	
	Label	
	Character	
	Line	
	Paragraph	

Space
You can adjust the inter-character spacing.
"Proportional = On" sets the characters proportionally, whereas "Proportional = Off" sets the characters to full size.
See ☞ p.34.

End?
See ☞ p.55.

Lista del menú "Modo" (Español)

El ajuste predeterminado se indica mediante Negrita .

Menú	Primera opción	Segunda opción
Modo		
Fuente ▶	**Tipo**	
Fuente Puede definir la fuente del texto. **See p.55.**	**SansSerif**	SansS. HG
	SansS. ST	Roman
	US Roman	CL Roman
	Gothic	BoldGothic
	BR	Mincho
	Gyosho	Reisho
	CB	Script PL
Decorar ▶	**Decorar1**	**Decorar2**
Decorar Puede decorar el texto. **See p.56.**	Conto. ▶	Itálic
	Normal	**Normal**
	Sombra	Negri.
	S + C	I + N
Ampl./red. ▶	Pequ.1	Pequ.2
Ampl./red. Puede ampliar (reducir) el tamaño del texto de acuerdo con el carácter de base. **See p.55.**	Reduc.	**Normal**
	Ampli	
Borde/arte ▶	L.cor.	Subra.
Borde/arte Puede definir subrayados, bordes, sombreados, etc. **See p.55.**	**Desac.**	Borde
	Redon.	Arte
	ArteB.	ArteR.

Menú	Primera opción	Segunda opción
Modo		
Espacio ▶	Ninguna ▶	**Proporcional**
	Estrecho	**Activar**
	Normal	Desactivar
	Ancho	
¿Fin? ▶	**¿área?**	
	Etiqueta	
	Carácter	
	Línea	
	Párrafo	

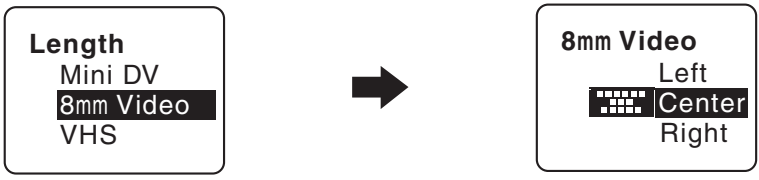
Espacio
Puede ajustar el espaciado entre caracteres. "Proporcional = Activar" ajusta los caracteres de manera proporcional, mientras que "Proporcional = Desactivar" ajusta los caracteres a tamaño completo.
See ☞ p.34.

¿Fin?
See ☞ p.55.

Function description (Length)

● Length

Sets the lengths of the label to be printed.
After setting the length, select the position of the characters on the label. Check the position using the displayed pictographs.



Set the length of the label between 1.0" and 15.0" using numbers.

When selecting a set length according to usage of the label, the length of the label is set automatically. It is recommended that you use the tapes shown in the following table "Recommended tape width".

Usage	Length	Recommended tape width
Cassette	3.7"	209
MD	2.2"	204
Mini DV	1.6"	209
8mm Video	2.8"	209
VHS	5.5"	218
3.5FD	2.8"	218,224
CD Case	4.3"	204
Binder	7.9"	212

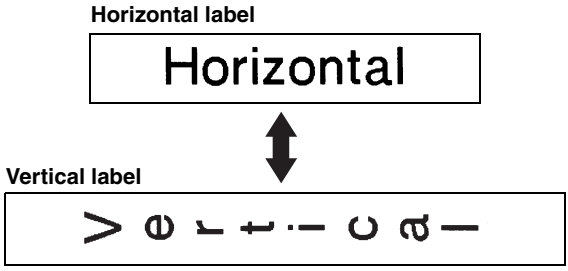
MEMO

- If the text does not fit on the set length, a message reading "Text Long!" will be displayed. It is not possible to print at this time. Reduce the number of characters or make the characters smaller using the line spacing setting or the expand/reduce setting.
- The length set using the Length function is a guide. It does not correspond to the exact length of the printed label.

Function description (Style)

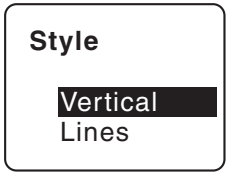
● Vertical

The orientation of the label can be changed to vertical or horizontal by sentence or paragraph.



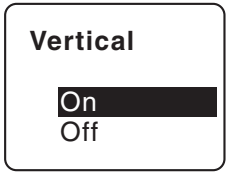
1 Press Style.

2 Select "Vertical" and press Return.

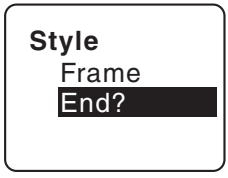


3 Select "On" or "Off" and press Return.

The function menu screen will be displayed again.
Select "On" to enter the text vertically.
Select "Off" to enter the text horizontally.

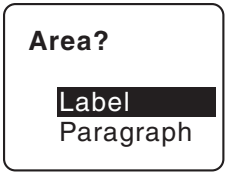


4 Press ↑ or ↓ to select "End?" and press Return.

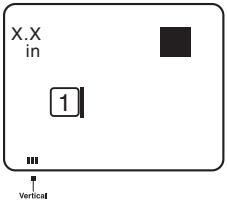


5 Set the effective area.

Set the effective area when the orientation of the label is changed.
Set the effective area using the ↑ and ↓ key and press Return.
Once the effective area has been set, the text screen is shown again.
See "Effective area and the position of the cursor" (p.54).



When using vertical orientation, the vertical indicator also lights up.

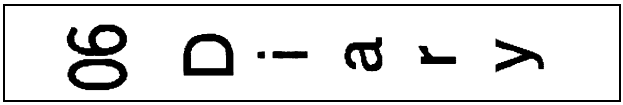


REFERENCE

Printing two-digit numbers vertically

The two-digit setting handles double figured numbers as one character. Select the "Double Figure" setting to align and print dates, house numbers of addresses, etc. tidily when using the vertical orientation.

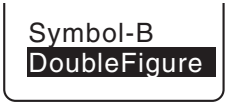
Ex. : Enter "06 Diary".



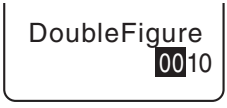
❶ Change the label orientation (horizontal/vertical) using steps ❶ - ❺ indicated on the previous page, and select "Vertical".

❷ Press (Sym. B).
The Symbol-B menu will be displayed.

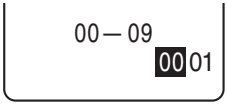
❸ Select "DoubleFigure" and press [Return].
Registered two-digit numbers will be displayed.



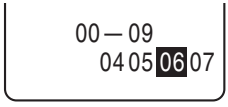
❹ Select "00" from the menu and press [Return].



In this case the position of the 10 is "00" so select "00".
The 00 option menu will be displayed.



❺ Select "06" from the "00" position menu and press [Return].



"06" is displayed at the position of the cursor.

❻ Enter text continuously.

MEMO

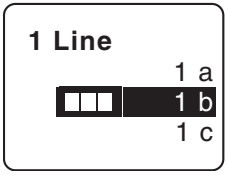
- To stop the process press (Esc Bs), (Sym. A) or (Sym. B). This takes you back to the previous step. Repeating this procedure brings you back to the text enter screen.
- To enter two-digit numbers press (Sym. B) and choose "DoubleFigure". Figures entered in the text screen will not be handled as double figure numbers.
- When using Sans serif or Roman font, the configuration of ordinary numbers and that of two-digit numbers differs.

● Lines

Changes the size of the texts.
Set the text size using "Equal" or "Auto format".

Equal **(default)**	Sets a equal text size for each line. 0.5" tape 2nd Album Now on sale! 0.7" tape Privilege of membership Invitation to an In-store Event Date:July 10 at 7:00 pm Ask the staffs for more detail.
Auto format	Selects the text size of each line (line spacing) from preset combinations (semi auto). **See ☞ "Auto fomat" (p.71)**

Auto format (1 to 8 lines)
Select text size from the options. Check the layout and the balance of the characters for each line using the displayed pictographs.



Auto format (1 line)
Selecting 1a/ 1b/ 1c/ 1d will print characters of the following size depending on the tape width:

Print sample	A	A	A	A	A	A	A
Tape width \ Text size [pt]	H [48]	U [38]	G [26]	L [19]	M [13]	S [10]	P [6]
224	1a	1b	1c	1d	–	–	–
218	–	1a	1b	1c	1d	–	–
212	–	–	1a	1b	1c	1d	–
209	–	–	–	1a	1b	1c	1d
206	–	–	–	–	1a	1b	1c, 1d
204	–	–	–	–	–	–	1a, 1b, 1c, 1d

MEMO

- The auto format is represented using pictographs.
- The text size of each line differs depending on the width of the tape and can be checked on the text size indicator.
- If the number of set lines and the number of lines input differs, "Equal" will be used to print.

● Layout

When using several lines, sets the "Layout" of each line.

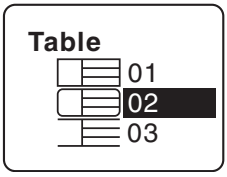
Left (default)	Aligns the head of the lines.
Center	Aligns the center of each line.
Right	Aligns the end of the lines.

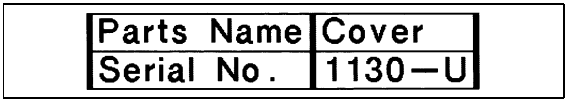
● Frame

Surrounds the text (paragraph) with frames or inserts tables.

Off (default)
No frame or table is inserted.

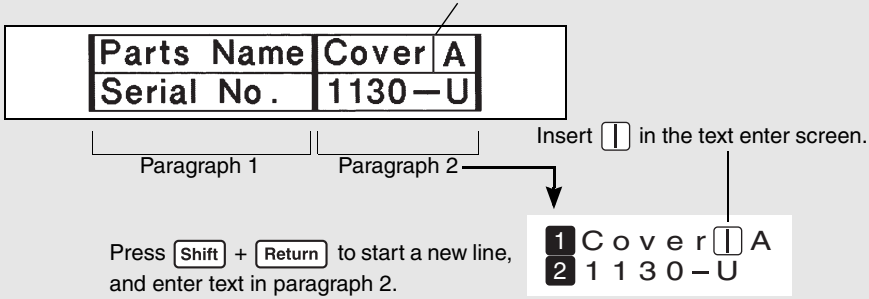
Table
Surrounds the text (paragraph) with a frame and inserts a horizontal separation line in between the lines.
When setting the same table in several paragraphs, inserts a separation line between the tables.
Check the type of table using the displayed pictographs.





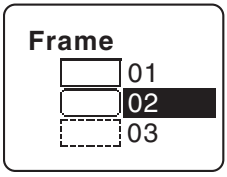
MEMO

To insert vertical lines into a table, press Sym. B and select "Mark" - [|].


A vertical line is insertied in the table.
Parts Name
Cover A
Serial No.
1130—U
Paragraph 1
Paragraph 2
Insert [|] in the text enter screen.
Press Shift + Return to start a new line, and enter text in paragraph 2.
1 Cover|A
2 1130—U

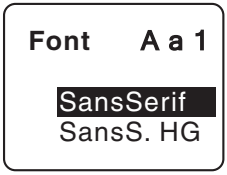
Frame

Inserts a frame around the text (paragraph).
Check the type of frame by looking at the displayed pictographs. Enter the two-digit number next to each frame to select the frame to apply.



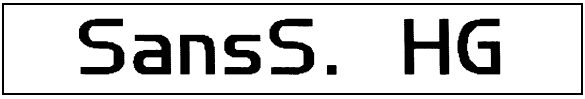
● Font

Selects the font of the text.



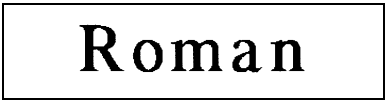
SansSerif

SansS. HG

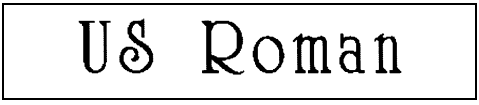


SansS. ST

Roman



US Roman



CL Roman

Gothic

BoldGothic

BR

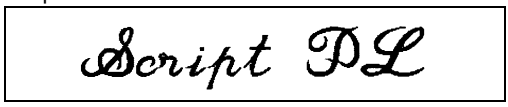
Mincho

Gyosho

Reisyo

CB

Script PL *



* : To reduce the character spacing like the sample label above, select "Mode" - "None" - "On".
See ☞ "List of "Mode" Menu" (p.64).

● Decorate

Selects the text decoration. "Decorate1" and "Decorate2" can be combined.

Decorate1	Decorate2
O. Line	Italic
Normal	**Normal**
Shadow	Bold
S + O	I + B

The default setting is indicated by Bold .

Normal & Italic

Normal & Bold

Normal & I + B

O. Line & Normal

Shadow & Normal

S + O & Normal

O. Line & Italic

Shadow & Bold

S + O & I + B

MEMO

Characters may be distorted due to character size or a high number of strokes.

● Exp./Red.

The base character size of each line (line spacing) depends on the tape width, number of lines, and the text size set under the style. "Exp./Red." sets the size of the character in relation with the base character.

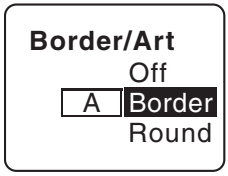
Normal (default)	Sets the text size to base character size.
Small2	One size smaller than the base character.
Small1	Two size smaller than the base character.
Reduce	0.75 times the horizontal length of the base character.
Expand	1.5 times the horizontal length of the base character.

MEMO

- Characters are bottom-aligned (aligned at the baseline of the letters) when creating a horizontal label. Characters are center-aligned (aligned in the center) when creating a vertical label.
- The baselines of Mincho, Gyosho, and Reisho fonts differ from that of alphanumeric character fonts and these fonts are threfore not be aligned.
- Selecting "Small1" or "Small2" may have no effect if the size of the characters is already small.
- The size of the base character of each line can be changed using the style setting. **See ☞ "Lines" (p.45).**
- Characters may be distorted due to effects, character size, or a high number of strokes.
- When large characters cannot be used, for example when using fine tapes, selecting "Expand" will make the characters look slightly larger and create a clearer label.

● Border/Art

Selects the frame, underline, or borders. Check the selected "Border/Art" using the displayed pictograph.



● Space

Sets the inter-character spacing.

None

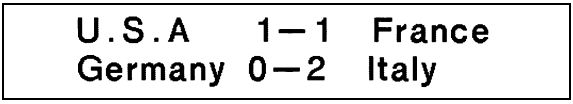
Narrow

Normal

Wide

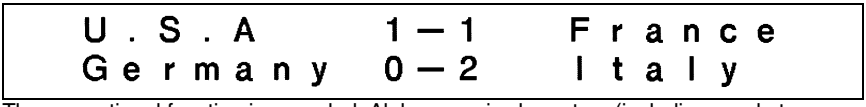
Then, select the proportional from "On" or "Off".

On



Alphanumeric character spacing is adjusted proportionally and appealingly to make labels look better.

Off



The proportional function is canceled. Alphanumeric characters (including one-byte spaces) are handled as two-byte characters. Select "Off" to align the characters of different lines neatly.

MEMO

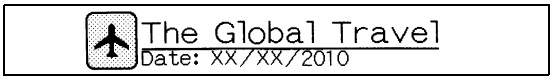
Setting "Space"

- Selecting "Narrow", may have no effect on characters that are pre-designed minutely.
- When creating a logo with attached expanded characters, selecting "Narrow" will print a label with perfectly attached characters.
  See ☞ "Using the User's Symbols" (p.95).
- You can create eye-catching labels by decreasing the inter-character spacing of large characters or increasing the inter-character spacing of small characters.

Recalling a Previously Designed Label (Form)

Some forms such as name labels, video labels, etc. are pre-stored in the LABEL PRINTER PRO. Special design labels, which you cannot create using File, Style or Mode function, are also ready for use as fixed forms.

Ex. **: 8 mm video label (sample form)**



Ex. **: 2.4" tab label (fixed form)**

Creating a label

To use a form follow the steps below:

1 Select a form.

2 Press (Esc Bs) (= Form) while holding down [Shift].
The "Form" Menu will be displayed.

3 Select "SampleForm" or "Fixed Form".
Use [↑] or [↓] to select the menu that includes the form you want ("SampleForm" or "Fixed Form") and press [Return].
Each menu is selected and their option screen will be displayed.

4 Select the form.

Use ↑ or ↓ to select the form and press Return.
If the fixed form is used for tabs or cables, choose the length of the label.

CAUTION!

When recalling a form, the text in the text enter screen is cleared. Save necessary text in a file before recalling a form.
See "Saving a file" (p.91).

MEMO

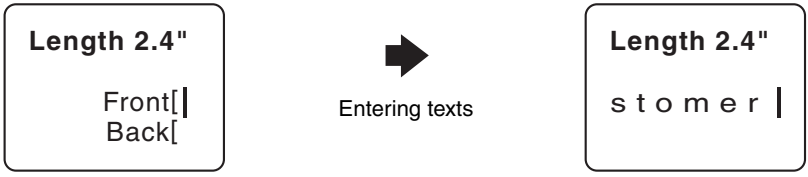
To cancel label setting process press Esc Bs or File. This takes you back to the previous step. Repeating this procedure allows you to go back to the text enter screen.

5 Enter text.

When using a form, the description of the designed form is displayed on the text enter screen. The form is preset as seen below, delete characters or numbers to change the description of the form or character.

Ex.: 1 ▶ ✈
1 ▶ The␣Global␣Travel
2 Date:␣XX/XX/2010

For fixed forms, the text enter screen will be displayed. Move the cursor behind the input guide (right side), enter the texts as in the normal text screen.



When using a fixed form that uses several lines press ↓ to move the cursor to the next line.
Press Return on the "Front" line, to automatically copy the description of the "Front" line to the "Back" line.

MEMO

- To cancel a fixed form process, press Esc Bs or File. This takes you back to the previous step.
- You can check the Length, Style, Mode settings with the indicators.
- The Length, Style, Mode set for sample forms can be changed but the functions that can be set in fixed form are limited.
  See "Fixed forms" (p.83).

6 Print the label.

See "5. Printing label" (p.37).

MEMO

After printing a fixed form, the fixed form screen will be displayed again. To go back to the text enter screen, press File several times until the text screen is displayed.

List of "Form/Fixed Form" menus

The default setting is indicated by Bold .

Menu	First option	Second option
Form		
SampleForm ▶	**Binder**	
	Price Tag	
	Furniture	
	CD Case	
	3.5FD	
	VHS	
	8mm Video	
	Mini DV	
	MD	
	Cassette	
	DAT	
	Caution	
	Warning	
	Message	
	Birthday	
	Name&Adrs	
	Congratul.	
Fixed Form ▶	**Tab** ▶	**Length**
		0.7"
		1.1"
		2.4"
		3.2"
		4.4"
	Cable ▶	**Cable**
		1.0"
		2.0"

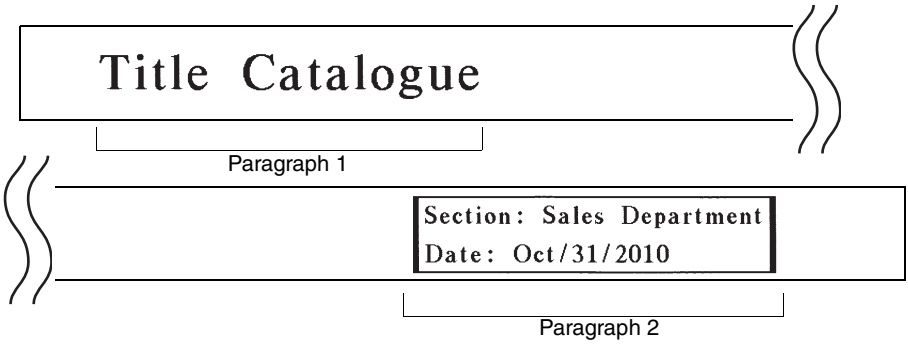
Form
A variety of labels can be easily designed by entering texts or numbers in pre-designed forms.
See ☞ p.83.

Fixed Form
This function allows you to design special labels that cannot be created using the normal text enter screen.
See ☞ p.87.

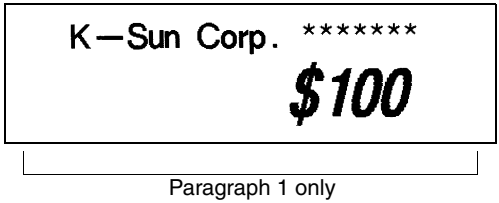
Sample forms

Sample form

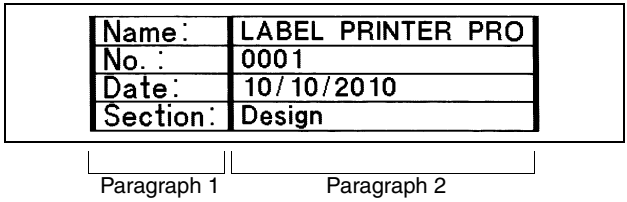
■ Binder ..... Perfect for title labels for binders. (Recommended tape-width:212)



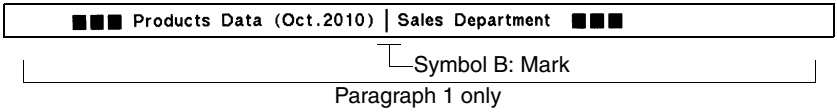
■ Price tag ..... Perfect for price tags. (Recommended tape-width: 218 or 224)



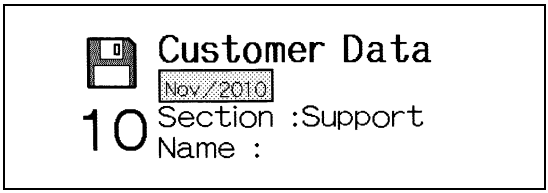
■ Furniture ..... Perfect for equipment management lists.
(Recommended tape-width: 218 or 244)



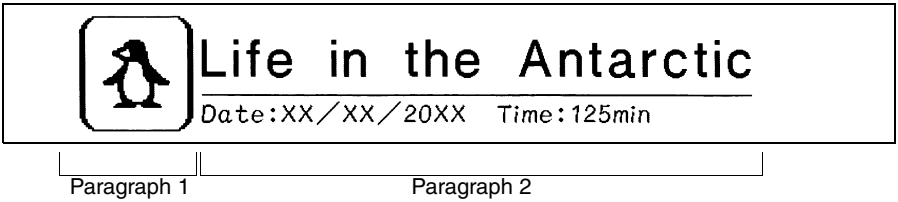
■ CD Case ..... Perfect for CD case labels. (Recommended tape-width:204)



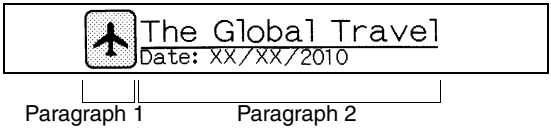
■ 3.5 FD .....Perfect for FD and MO labels. (Recommended tape-width:218 or 224)



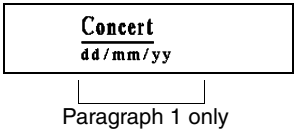
■ VHS.....Perfect for VHS video tapes. (Recommended tape-width: 218)



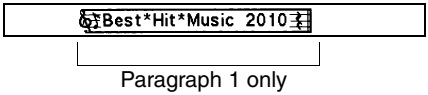
■ 8mm Video..Perfect for 8mm video labels. (Recommended tape-width:209)



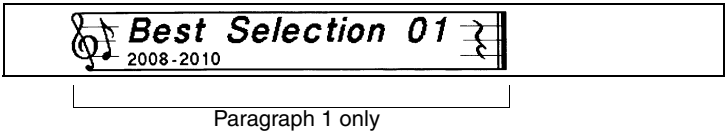
■ Mini DV.....Perfect for mini DV (digital video) labels. (Recommended tape-width: 209)



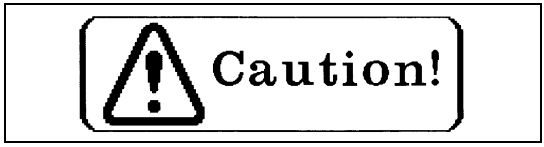
■ MD .....Perfect for MD title labels. (Recommended tape-width: 204)



■ Casette/
DAT .....Perfect for music tapes and DAT title labels.
(Recommended tape-width: 209)



■ Caution ..... Perfect for reminder and warning signs. (Recommended tape-width: 209-224)



Paragraph 1 Paragraph 2

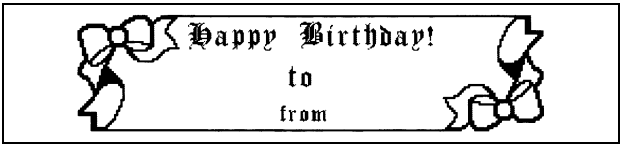
■ Warning ..... Perfect for prohibition signs. (Recommended tape-width: 209 - 224)

Paragraph 1 Paragraph 2

■ Message ..... Perfect for eye-catching messages. (Recommended tape-width:209 - 224)

Paragraph 1 Paragraph 2

■ Birthday ..... Perfect for birthday celebration signs. (Recommended tape-width: 209 - 224)



Paragraph 1 only

■ Name&Adrs ... Perfect for addresses and name signs.
(Recommended tape-width: 209 - 224)

Paragraph 1 Paragraph 2

■ Congratul..... Perfect for celebration labels. (Recommended tape-width: 209 - 224)

Paragraph 1 only

Fixed form

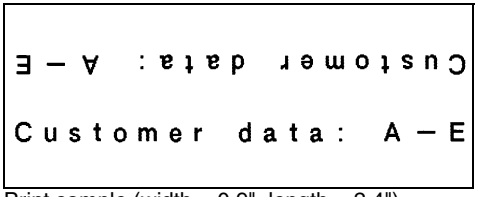
CAUTION!

- When recalling a fixed form, the text in the text enter screen is cleared. Save necessary text in a file before recalling a special Symbol.
  See ☞ "Saving a file" (p.91).
- "Front [","Back [", and "Text [" contained in text screen are guides and are not printed on the label.
- Text created in fixed form cannot be saved.

MEMO

When editing fixed forms, hold down Shift and press Esc Bs (= Delete) to delete all the text.

■ Tab..... Perfect for horizontal indexes.



Print sample (width = 0.9", length = 2.4")

Text
Front:
Customer data: A-E
Back:
Customer data: A-E

Functions that can be set		All the mode functions	
Input conditions	**Number of lines that can be entered**	2 lines	
	Number of characters that can be entered	27 characters per line	
Number of characters that can be printed		0.7"	4 characters per line
		1.1"	8 characters per line
		2.4"	17 characters per line
		3.2"	23 characters per line
		4.4"	27 characters per line

CAUTION!

- The number of characters that can be printed represents the number of characters that can be printed when no mode is set. The number of characters that can be printed changes once styles such as "Decorate" or "Exp./Red", etc. are set. The number of printable characters also changes when proportional alphanumeric characters are included in the text. However, the number of characters that you can enter is up to 27.
- Selecting "None" for the "Space" prints the characters with "Center" layout.
- If the text does not fit in the set length due to a large number of characters, a message reading "Text Long!" will be displayed. Press a key other than Return or Print to stop the printing and reduce the number of characters or the size of the characters using "Exp./Red". Press Return or Print to cancel the set length and print the label.
- This machine cannot print fixed forms on 204 or 206 tapes.

MEMO

Press Return on the "Front" line to automatically copy the contents of the "Front" line to the "Back" line.

■ Cables..... Especially designed for cable sign labels. Suitable for 224 tapes.

Print sample (224 tape (width), length = 1.0")

Text
5F, Main building

Functions that can be set		All the mode functions	
Input conditions	**Number of lines that can be entered**	1 lines	
	Number of characters that can be entered	20 characters per line	
Print conditions	**Number of lines that can be printed**	1 lines (when using 224 tape)	
	Number of characters that can be printed	1.0"	10 characters per line
		2.0"	20 characters per line

CAUTION!

The number of printable characters shows the number of printable characters when no mode has been set. The number of printable characters changes once styles such as "Decorate" or "Exp./Red" etc. are set. The number of printable characters also changes when proportional alphanumeric characters are included in the text. However, the number of characters that you can enter is up to 27.

MEMO

If the text does not fit in the set length due to a large number of characters, "Text Long!" will be displayed. Press a key other than Return or Print to stop the printing and reduce the number of characters or the size of the characters using "Exp./Red". Press Return or Print to cancel the set length and print the label.

Recalling/Saving Text

Text can be saved using the File key.

Using the File key

To save the created text or data, press File and select the function displayed in the menu.

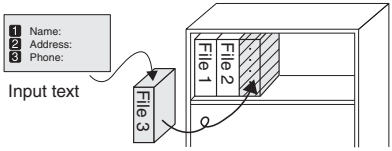
List of "File" Menu (The default setting is indicated by Bold .)

Menu	First option	Function	Reference page
File ▶	**Store**	Use a file name to save the created text.	**See p.91.**
	Recall	Recalls the saved text.	**See p.92.**
	Delete	Deletes the saved text.	**See p.93.**
	Copy	Copies the saved text to another file.	**See p.94.**

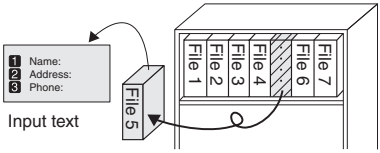
About "File"

The File function allow you to recall, change and print saved text. The File function also allow you to save the text format, style, and mode settings of the label.

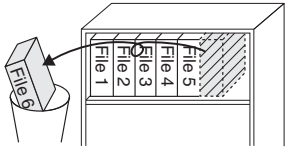
Store... Saves the text.



Recall... Recalls the file.



Delete... Deletes the saved file.



MEMO

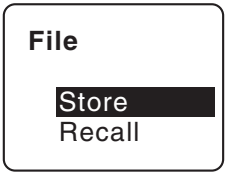
File functions also include "Copy" which copies the saved text to another file.

Saving a file

Saves text into a file. Select a file number from the file number 01 - 99 (99 files).

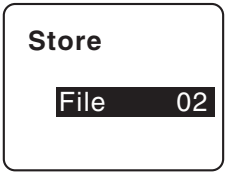
1 Press File.

2 Select "Store", and press Return.



The "Store" menu will be displayed.

3 Use ← ↑ ↓ → or 0 - 9 to select a document number and press Return.



4 Check the information to be saved and press Return.

"Execute" is displayed, then the screen will return to the text screen after saving.

CAUTION!

Do not unplug the AC adapter or the batteries when the message reading "Execute" is shown. File information may be damaged.

MEMO

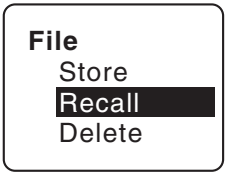
- Press Return or Print to cancel the process. This will take you back to the previous step. Repeating this procedure allows you to go back to the text screen.
- If there is no available space to save the data an error message reading "Memory Full!' will be displayed. Please delete unneeded files in this case.
- This machine can save a total character count of approximately 5,000 characters (up to 99 files). However, saving a lot of symbols will reduce the number of files that can be saved.
- Only text files from the text screen can be saved. Text files created using fixed forms cannot be saved.

Recalling a files

Recalls the saved text on the text screen. Files can be loaded using "Replace" or "Connect". If "Replace" is selected, the current content of the text enter screen will be deleted and replaced with the text of the loaded file. If "Connect" is selected, a new paragraph with the loaded text will appear immediately after the paragraph containing the cursor. However, if the cursor is positioned on the line head icon of the first line in paragraph 1, a new paragraph with the loaded text will appear before the paragraph containing the cursor.

1 Press (File).

2 Select "Recall", and press [Return].



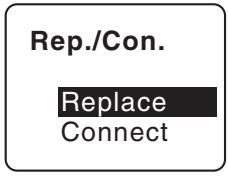
The confirmation will be displayed.

3 Use ← ↑ ↓ → or [0] - [9] to select the text to be loaded and press [Return].

4 Check the information and press [Return]. Use ← ↑ ↓ → to confirm the text.

The loading information selection screen will be displayed.

5 Select "Replace" or "Connect" and press [Return].



The saved text is loaded and the text screen will be displayed.

CAUTION!

- If "Replace" is selected, the current content of the text enter screen will be deleted, it cannot be restored by pressing (Undo). Before selecting "Replace", make sure you have saved any necessary text as a file.
- When loading a file with "Connect", the maximum text length may be exceeded. Text beyond the maximum length will be automatically deleted.

MEMO

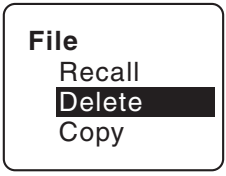
Press (File) or (Esc Bs) to cancel the process. This will take you back to the previous step. Repeating this procedure allows you to go back to the text enter screen.

Deleting a file

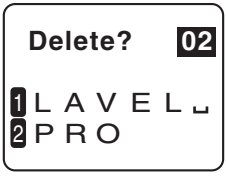
Files are deleted one by one at a time.

1 Press File.

2 Select "Delete", and press Return.



3 Use ← ↑ ↓ → or 0 - 9 to select the text to be deleted and press Return.



The delete confirmation screen will be displayed.

4 Check the information and press Return.

Use ← ↑ ↓ → to confirm the text.

The re-confirmation screen will appear.

5 Press Return.

A message reading "Execute" appears. Once the file has been deleted the text enter screen will be displayed again.

MEMO

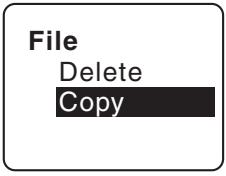
- After you have deleted a file, it cannot be restored with the Undo key.
- You can cancel the process by pressing File or Esc Bs. This will take you back to the previous step. Repeating this procedure allows you to go back to the text enter screen.

Copying a file

Copies a stored file to a file with a different number.

1 **Press File.**

2 **Select "Copy", and press Return.**



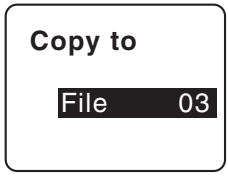
3 **Use ← ↑ ↓ → or 0 - 9 to select the text to be copied and press Return.**

The copy confirmation screen will be displayed.

4 **Check the information and press Return.**
Use ← ↑ ↓ → to confirm the text.

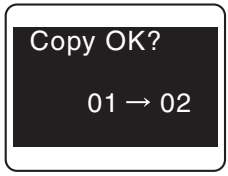
The destination file screen will be displayed.

5 **Use ← ↑ ↓ → or 0 - 9 to select the destination file number and press Return.**



The copy confirmation screen will be displayed.

6 **Check the save information and press Return.**



A message reading "Execute" will be displayed. Once the file has been copied the text enter screen will be displayed again.

MEMO

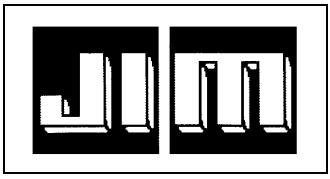
- You can cancel the process by pressing File or Esc Bs. This will take you back to the previous step. Repeating this procedure allows you to go back to the text enter screen.
- Even when a file is copied the original file remains.

Using User's Symbols

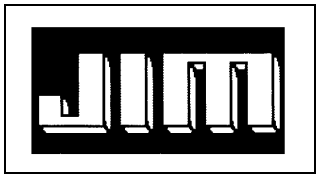
Saving marks and company logos that you have designed yourself, or external characters and symbols as user's symbols allows you to insert and print them.

User's symbols are square. Horizontally long logos are divided and stored as several user's symbols, setting "Narrow" under "Mode" prints the logo attached.

Dividing a user's symbol into two characters and saving it (Inter-character spacing "Normal").



Inter-character spacing "Narrow".



MEMO

Up to four user's symbols can be stored.

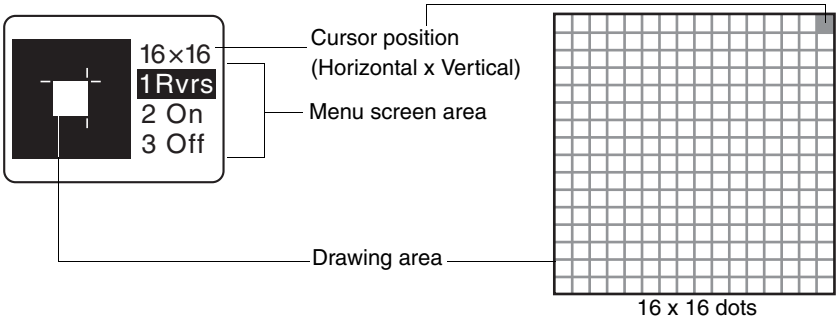
How to create user's symbols

When saving a user's symbol, create letter-shape data for each of the four sizes 16/24/32/48 dots. This is so that the different letter sizes print beautifully.
However, to avoid having to create the user's symbol from the beginning, entering the 16-dot data first allows the machine to automatically enlarge the user's symbol to 24/32/48 dots. You can then revise the design.

Screen mode and drawing method

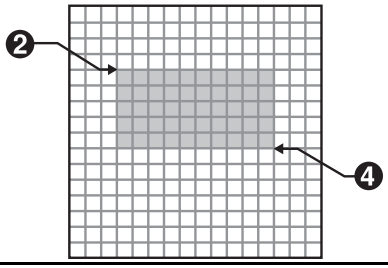
Creating a user's symbol is similar to filling a bitmap. Fill in the dots of the drawing area that will be displayed on the screen to resemble the bitmap.

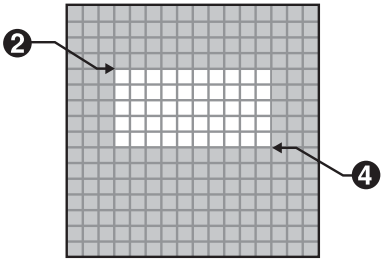
Screen mode (Example: 16 dots)



Drawing method (Select using the menu screen area)

Use [1] / [2] / [3] to select a drawing method. Select an option among 1 dot filling "Rvrs", block filling "On", or block filling "Off (= Delete)".

Menu	Drawing method	Menu
Rvrs	To fill the dot one by one.	❶ Press [1]. In the menu, "1 Rvrs" is highlighted. ❷ Move the cursor to the dot to be filled using ←↑↓→. ❸ Press [Shift]. The square where the cursor is positioned is filled with black. Pressing again fills the square white.
On	To fill a large block with black. 	❶ Press [2]. In the menu, "2 On" is highlighted. ❷ Move the cursor to one corner of the area to be filled using ←↑↓→. ❸ Press [Shift]. Move the cursor to the diagonally opposite corner of the area to be filled using ←↑↓→. ❹ Press [Shift]. The area delimited using ❷ and ❹ is filled with black.

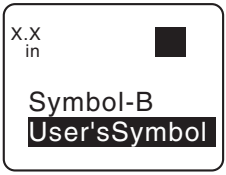
Menu	Drawing method	Menu
Off	To fill a wide block with white (=Delete).  	❶ Press [3]. In the menu, "3 Off" is highlighted. ❷ Move the cursor to one corner of the area to be filled using ←↑↓→. ❸ Press [Shift]. Move the cursor to the diagonally opposite corner of the area to be filled using ←↑↓→. ❹ Press [Shift]. The area that was delimited using ❷ and ❹ is filled with white.

Creating and saving user's symbols

Ex : **Saving "" as user's symbol "2".**

1 **Press** (File).

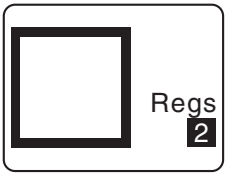
2 **Select "User's Symbol", and press** Return.



3 **Select "Register" and press** Return.

The drawing area and the user's symbol number are displayed.

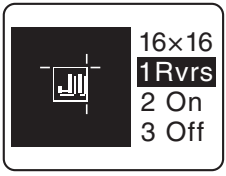
4 **Select "2" as the store number and press** Return.



5 **Drawing the 16-dot data.**

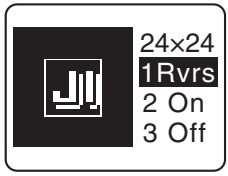
Use Shift ← ↑ ↓ → to draw.

See "Screen mode and drawing method" (p.96).



6 **Once the 16-dot symbol has been drawn press** Return.

The 16-dot data is automatically enlarged to design 24/32/48-dot data.



7 **Revise 24/32/48-dot data.**

You can revise the enlarged data using the same procedure as in **5**. Press Return to move to the next size drawing.

CAUTION!

If you do not revise the data for the 24 to 48-dot symbol, the symbols may not print satisfactorily depending on their size.

8 **Once the 48-dot symbol have been drawn, press** Return.

A message reading "Execute" will be displayed. Once the character has been stored, the text enter screen will be displayed again.

MEMO

You can cancel the process by pressing (Esc Bs) or (Sym B). This will take you back to the previous step. Repeating this procedure allows you to go back to the text enter screen.

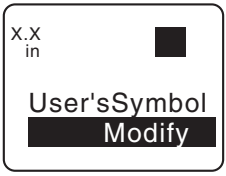
Modifying user's symbols

Ex. : Modifying the 48-dot data for the user's symbol "2".

1 Press Sym. B.

2 Select "User's Symbol", and press Return.

3 Select "Modify" and press Return.



The user's symbol numbers are displayed.

4 Select the user's symbol "2" and press Return.

5 Press Return until the 48-dot drawing is displayed.

6 Modify the 48-dot data.
See "Screen mode and drawing method" (p.96).

7 Press Return.
A message reading "Execute" will be displayed. Once the character has been modified, the text enter screen will be displayed again.

Loading a user's symbol

Inserts a saved user's symbol.

1 Move the cursor to the position where you want the user's symbol.

2 Press Sym. B.

3 Select "User's Symbol" and press Return.

4 Select "Recall" and press Return.

5 Select the user's symbol to be recalled and press Return.

MEMO

You can cancel the process by pressing Esc Bs or Sym. B. This will take you back to the previous step. Repeating this procedure allows you to go back to the text enter screen.

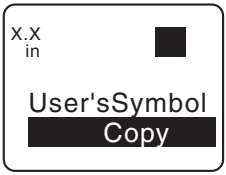
Copying a user's symbol

Copies a user's symbol to a different user's symbol number.

1 **Press (Sym. B).**

2 **Select "User's Symbol", and press Return.**

3 **Select "Copy" and press Return.**



4 **Select the original number of the user's symbol and press Return.**

5 **Select the destination number of the user's symbol and press Return.**

The copy information confirmation screen will be displayed.

6 **Check the information and press Return.**

A message reading "Execute" will be displayed. Once the character has been copied the text enter screen will be displayed again.

MEMO

You can cancel the process by pressing (Esc Bs) or (Sym. B). This will take you back to the previous step. Repeating this procedure allows you to go back to the text enter screen.

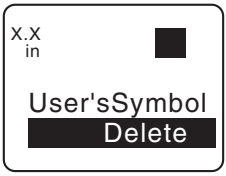
Deleting a user's symbol

Copies a user's symbol to a different user's symbol number.

1 Press (Sym. B).

2 Select "User's Symbol", and press Return.

3 Select "Delete" and press Return.



4 Select the original number of the user's symbol and press Return.

The delete information confirmation screen will be displayed.

5 Check the information and press Return.

A message reading "Execute" will be displayed. Once the character has been deleted, the text enter screen will be displayed again.

CAUTION!

After you have deleted a user's symbol, it cannot be restored with the (Undo) key. Always double check before you delete the symbol.

MEMO

- You can cancel the process by pressing (Esc Bs) or (Sym. B). This will take you back to the previous step. Repeating this procedure allows you to go back to the text enter screen.
- Deleted user's symbols that have been inserted in the text will be printed blank.

Creating and registering a user's symbol from a reference symbol

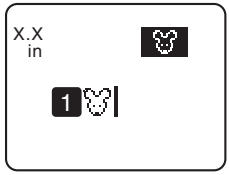
Creating a user's symbol using a reference character or symbol supported by this machine.

● **Registering a reference character**	● **Modifying a reference character**
Recall the text character (symbol) and modify the 16-dot character. The modified 16-dot character is automatically enlarged and creates the user's symbol (24 → 32 → 48 dots).	To create a user's symbol recall the text character (symbol) and modify the text characters (symbol) for each of the 16/24/32/48-dot sizes.

The basic operation are the same as for "Registering a user's symbol"/"Modifying a user's symbol" but to register a reference character/modify a reference character you first need to insert the reference character (symbol) to be saved or modified in the text enter screen.

Ex: Drawing mustaches on "🐭 of "Symbol-B" under "Living Thing" to obtain "🐭".

1 Input the reference character (symbol) and move the cursor right behind it (right side).



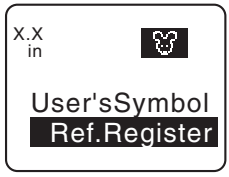
MEMO

- Sequence numbers, bar codes, editing symbols, one-byte space cannot be used as reference characters for user's symbols.
- Only characters that are on the left side of the cursor on the text enter screen can be used as reference characters.

2 Press Sym. B.

3 Select "User's Symbol", and press Return.

4 Select "Ref.Register" or "Ref Modify" and press Return.

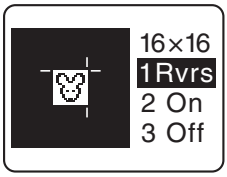


5 Select the user's symbol number to be registered and press Return.

6 Modify the data.

Modify the data based on the 16-dot reference character that will be displayed. Press Return to display the next size revision screen.

See "Screen mode and drawing method" (p.96).



7 Press Return once the 48-dot drawing is complete.

A message reading "Execute" will be displayed. Once the character has registered the text enter screen will be displayed again.

MEMO

To cancel the process press Esc Bs or Sym B. If the process is cancelled the user's symbol data drawn for other sizes will be lost.

Printing Sequence Numbers and Bar Codes

Hold down Shift and press Sym. A (= Sequence) or Sym. B (=Bar Code) to insert sequence numbers and bar codes.

Creating a label with a sequence number

The default setting is indicated by Bold .

Menu	First option	Second option	Third option	Fourth option
Sequence ▶ **Sequence** You can create a label with a sequence number. **See p.105.**	**Value ▶**	**Repetition** **1 time** 2 times 3 times 4 times 5 times 10 times		

Printing sequence numbers

To create multiple labels with same texts and different numbers or characters, use the "Sequence" feature described below. The device automatically increases the numbers or characters every time it prints a label.

To print sequence numbers set the initial value and the number of repetitions (1, 2, 3, 4, 5, 10 times). The number of repetitions sets the number of times the same number will be used.

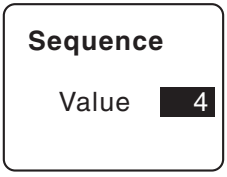
Ex. : Creating 2 labels each numbered 4, 5, 6...

1 Align the cursor with the location for the sequence number.

2 Press Sym. A (= Sequence) while holding down Shift .

The "Value" screen will be displayed.

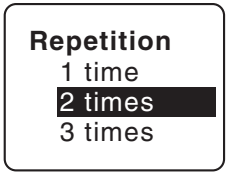
3 Input "4" in "Value" and press Return .



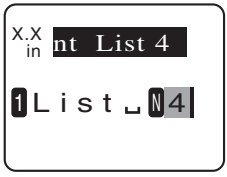
MEMO

Up to two-digit numbers and one character can be used as initial values.

4 Select "2 times" for "Repetition" and press Return .



The text enter screen will be displayed again and the sequence number (sequence number icon N + value area "4") will be displayed at the cursor position.



5 **Press** (Print) .
The first label "4" is printed.

6 **Press** (Print) .
"Repetition" is set to "2 times" so the second label "4" is printed.

After the labels were printed, the number in the value area increases to "5".

7 **Press** (Print) .
The first label "5" is printed.

The above process is repeated subsequently.

MEMO

- Only numbers 0-9 or 00-99 and letters A-Z or a-z can be used as initial sequence number. Decimals and minus symbols cannot be used.
- Numbers increase by one 1, 2, 3, 4, ... up to 99 (or 01, 02, 03, 04, ... up to 99). Letters follow the alphabetical order A (a), B, (b), C (c), D (d).
- A single text can have up to three sequence numbers and bar codes in total.
- To change the sequence number or repetition number, move the cursor to immediately after the sequence number and press [Shift] + (Sym, A) (=Sequence). The "Seqence" menu will be displayed. The setting method is the same as the input procedure.
- To delete sequence number, move the cursor to immediately after the sequence number (right side) and press (Esc Bs) .
- Length, Style and Mode functions can be set for sequence number (sequence number icon N + value area) in the same way as for standard characters.
- If a text with sequence number is continuously printed out "Sequence" labels can be printed several times. **See** ☞ **"Prints the same label continuously (Repeat)" (p.111)**

Creating a label with a bar code

The default setting is indicated by Bold .

Menu	First option	Second option	Third option	Fourth option
Bar Cord **Bar Code** You can create labels with bar cords. **See p.108.**	**CODE128** ▶ **CODE 39** ▶ **ITF** ▶ **CODABAR** ▶ **UPC-A** ▶ **UPC-B** ▶	**Width** ▶ Small **Medium** Large	**(CODE 39, ITF, CODABAR)** **Ratio** ▶ 2.0 **2.5** 3.5	**(CODE 39, ITF, CODABAR)** **Check Digit** ▶ On **Off**

Bar code printing

Prints various standard bar codes.

Standard printable bar codes and settings item menu

Standard	Width Small/ **Medium** /Large	Ratio 2.0/ **2.5** /3.0	Check Digit On/ **Off**
CODE128, UPC-A, UPC-E	○	-	-
Code 39, ITF, CODABAR	○	○	○

The default setting is indicated by Bold .

○ : Can be set

- : Cannot be set

Width : The full width of the bar code

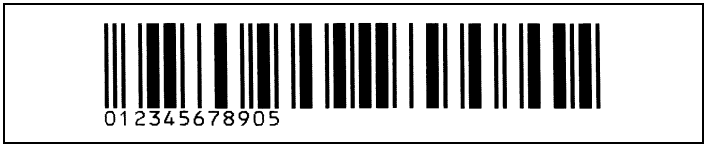
Ratio :The ratio of narrow bars to bold bars

Check Digit : Check digit on/off

CAUTION!

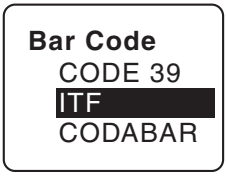
When creating bar codes, be sure to follow the rules applied to the bar codes.

Ex: Printing an "ITF" bar code (Width = Large, Ratio = 3.0, C/D on)



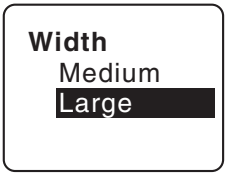
1 **Press Sym. B (= Bar Code) while holding down Shift .**

2 **Select "ITF" and press Return .**



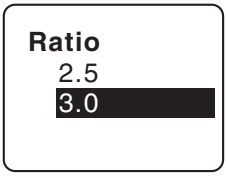
The "Width" menu will be displayed.

3 **Select "Large" and press Return .**



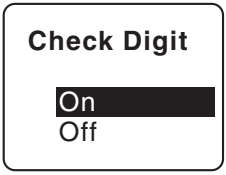
The "Ratio" menu will be displayed.

4 **Select "3.0" and press Return .**



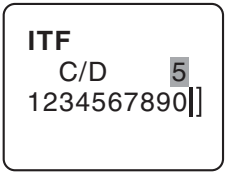
The "Check Digit" menu will be displayed.

5 **Select "On" and press Return .**



The bar code number input screen will be displayed.

6 **Enter the bar code number using the character keys.**



The number will be displayed.
The check digit is automatically displayed in the shaded field in the right upper corner. The digit numbers that can be entered depend on the type of bar code.

7 **Press** [Return] **.**

The text enter screen will be displayed again. The bar code mark " " will be displayed in the position of the cursor.

8 **Press** [Print] **.**

The bar code label is printed.

MEMO

- A single document can have up to three sequence numbers and bar codes combined.
- Bar codes contain considerable data, and use up a lot of memory when saved in files.
- To change the bar code number or the type of bar code, move the cursor to immediately after (right side) the bar code mark " " and press [Shift] + (Sym. B) (= Bar Code). The "Bar code" menu will be displayed. Next, repeat the above process.
- To modify a bar code number, go to the bar code number enter screen, delete the previously entered bar code number and enter the new bar code number.
- To delete a bar code, move the cursor to immediately after the bar code mark " " (right side) and press (Esc Bs).
- Style and Mode functions can be set for bar code marks in the same way as for standard characters but will be shown as follows:

  Settings that will be shown on bar code marks

Style	Frame, Table
Mode	Border/Art

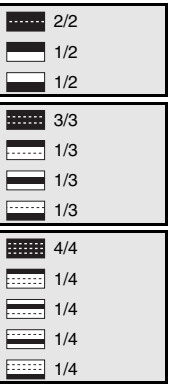
- Always make sure that the bar codes are read correctly by a bar code reader before they are used. If they are not read correctly by the bar code reader adjust the "Width" or "Ratio" and check again.
- To print bar codes, it is recommended that you use a tape with a white background and black characters as they are easily read by bar code readers.
- The digits that can be entered vary according to the type of bar code. ITF and CODABAR allow 1 to 19.
- ITF bar codes only support even digit numbers. When entering even digit numbers with Check Digit setting set to "On" or when inputting odd digit numbers with Check Digit setting set to "Off", the spare code "0" is automatically input in the first row.
- The Check Digit of UPC-E is not displayed on the bar code number input screen or in the bar code number.
- CODABAR cannot be read by the bar code reader unless one of "A, B, C, D" are input at the beginning and the end of the code.
- The length of the bar code (bar area) and the length of the numbers is not always the same. This does not affect their usability.

Extra Print Functions (Repeat, Enlarge)

Pressing (Rpt. Enl.) allows you to set special printing functions such as continuous and enlarged printing.

List of "Extra Print" menu

The default setting is indicated by Bold .

Menu	First option	Second option
Extra Print ▶		
Repeat Prints the same label continuously. **See** ☞ **p.111.** — **Repeat** ▶	Until Stop **Off** X 2 X 3 X ** X 100	
Enlarge Prints an enlarged label. **See** ☞ **p.112.** — **Enlarge** ▶	**Off** 2 times ▶ 3 times ▶ 4 times ▶	
Autocut Sets the autocut function to on/off. **See** ☞ **p.116.** — **Autocut** ▶	**On** Off	
Excute?		

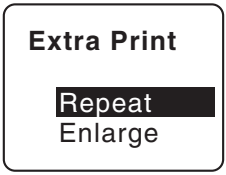
Prints the same label continuously (Repeat)

Prints a specified number of identical labels continuously.

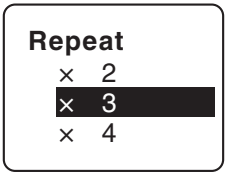
Ex. : Printing the same label 3 times continuously

1 Enter the text and press (Rpt. Enl.).
The" Extra Print" menu will be displayed.

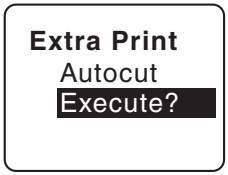
2 Select "Repeat" and press Return.



3 Select "X3" and press Return.
The "Extra Print" menu will be displayed again.



4 Select "Execute?" and press Return.



Printing starts. Once the first label has been printed, the tape is cut off, the same procedure is repeated for the second and third labels.

MEMO

- You can cancel the process by pressing (Esc Bs) or (Rpt. Enl.). This will take you back to the previous step. Repeating this procedure allows you to go back to the text enter screen.
- Selecting "Until Stop" from the "Repeat" menu allows you to print up to 100 labels continuously. To stop printing, press any key.
- If the specified number of labels exceeds the tape length 52.5 feet, the labels cannot be printed. Decrease the number of labels or decrease the number of characters to shorten the length of the label.
- When printing text with sequence numbers continuously, printing will be in accordance with the settings made in sequence number.
  For example, when printing a label with an initial sequence number "1", number of repeat times is 1, with an initial sequence number "3" labels will be continuously printed in batches of 3.

CAUTION!

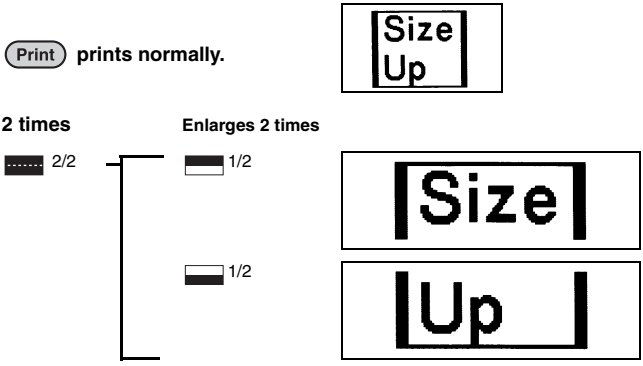
- Extra print only starts once "Execute?" has been selected under the "Extra Print" menu. Press (Print) for normal printing.
- When using the continuous printing function remove labels from the printer to prevent them from piling up and blocking the label eject slot . Labels that are left to pile up at the label field may be cut again.
- Even if the tape ends before the print job is complete, the set number of labels will be printed and cut. To prevent the tape being cut if the tape ends before the print job is complete, press (Esc Bs) to abort the print job.

To create a label that is wider than the width of the tape (Enlarge)

Enlarged printing enlarges the label 2,3,4 times, and divides the label into sections to be printed so that you can create a label that is bigger than the width of the tape. Assemble the completed label before using it.

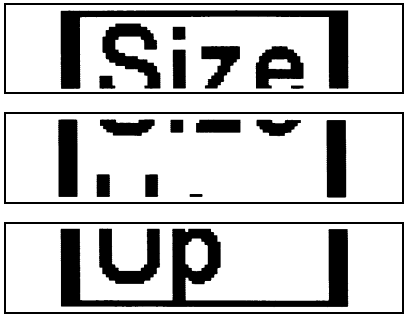
"Enlarge 2 times 2" prints a label in a set of two sections; upper and lower and "Enlarge 3 times 3" prints a label in a set of three sections; upper, middle and lower. Once the size has been set, select "1/2" and "1/3" to print only one relevant section of the set.

● Types of enlarged printing (Sample: 0.5" tape)



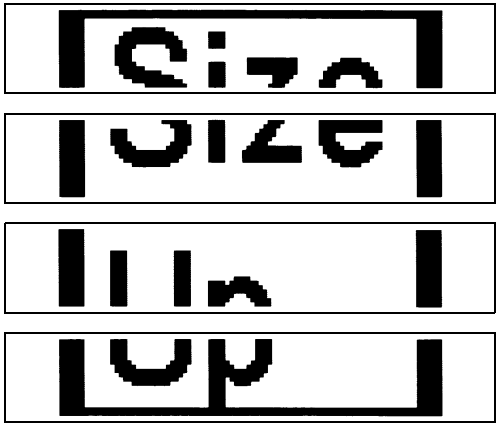
3 times **Enlarges 3 times**

3/3 → 1/3, 1/3, 1/3



4 times **Enlarges 4 times**

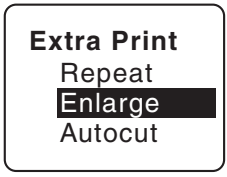
4/4 → 1/4, 1/4, 1/4, 1/4



Ex: Enlarging a label 3 times and printing it.

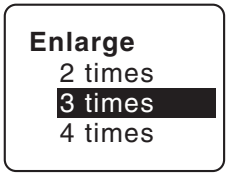
1 Once the text is entered press Rpt. Ent. .
The "Extra Print" menu will be displayed.

2 Select "Enlarge" and press Return .



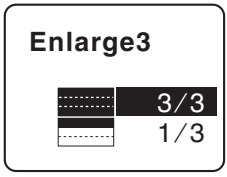
The "Enlarge" menu will be displayed.

3 Select "3 times" and press Return .



The "Enlarge 3" menu will be displayed.

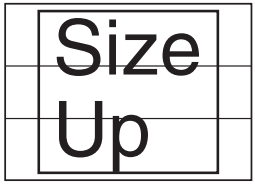
4 Select "3/3" and press Return .
"3/3" is selected and the "Extra Print" menu will be displayed again.



5 Select "Execute?" and press Return .

The 3 sections of the label set are printed.

6 Assemble the tape.



Cut off the edges with a cutter and assemble the letters.

MEMO

- You can cancel the process by pressing (Esc Bs) or (Rpt. Enl). This will take you back to the previous step. Repeating this procedure allows you to go back to the text enter screen.
- When assembling a label that was created using "Enlarge", the label may not align completely.
- If you want to print a long text using the "Enlarge" function you may not be able to print a label longer than 52.5 feet. Reduce the number of characters or divide the text into two.
- "Enlarge" enlarges normal printing text 2, 3, 4 times. Enlarged printing prints out the print data at the specified enlargement ratio. The specified length is increased 2, 3, 4 times.
- The tape length displayed on the screen is the length at normal printing. When printing using "Enlarged" a label 2, 3, 4 times the length of the displayed length will be printed.

Enlarge	Tape Width	Tape Length	Amount of used tape
2 times	2X	2X	4X
3 times	3X	3X	9X
4 times	4X	4X	16X

For example, when printing using "Enlarge 3 times", compared with the normal print size using (Print), both length and width are increased 3 times. Therefore, about 9 times the length of tape is used.

CAUTION!

Extra print can only be executed by selecting "Execute?" from the "Extra Print" menu. Pressing (Print) will execute normal printing.

REFERENCE

Colorful Enlarge 3 times 3

Let's create a colorful label using same width tape of different colors for the upper middle and lower sections of "Enlarge 3 times 3". Using tape of different colors may result in somewhat changing the length of the label. When changing the tape cartridge, make sure you forward the tape after setting it.

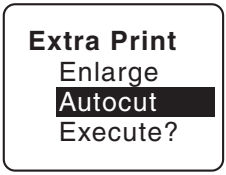
Turning "Autocut" Off to Print

This machine automatically cuts off the label after printing it. However, it is possible to turn off feature.

Turning "Autocut" off

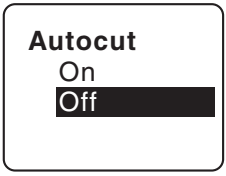
1 Press Rpt. Enl. (= Extra Print) .
The" Extra Print" menu will be displayed.

2 Select "Autocut" and press Return .



"Autocut" will be displayed.

3 Select "Off" using ↑ or ↓ and press Return .



4 Select "Execute?" using ↑ or ↓ and press Return .

Printing starts.
Once the print job is complete, printing stops but the label is not cut. Remove the cartridge and cut the tape using scissors or such. If you do not use the autocut function, repeat the above procedure after each label.

MEMO

- For labels that are not automatically cut, remove the cartridge from the machine, leave 0.1" of the tape on the cartridge and cut the label straight using scissors available on the market.
- Even when autocut is turned off, you can cut the tape using "Feed & Cut" from the "Feed/Cut" menu. **See ☞ "5. Feeding the tape" (p.30)**

Setting Default Settings

Default settings for items such as "Font" and "Space" can be changed.
The following functions can be set using Length, Style and Mode.

Key functions

Key	Functions that can be set
Length	Length
Style	Vertical, Lines, Layout, Frame/Table
Mode	Font, Decorate, Exp./Red., Border/Art, Space

Selecting a function displays the item menu list. The selected item is the default setting. If you often use different "Font", etc. to the one specified in the factory setting (default) you can change the factory settings so that you do not need to change the settings using Length, Style and Mode each time you create a text.
If the default settings are changed, the label will automatically reflect the changes. For example setting the "Vertical/Horizontal" default setting to "Vertical text orientation" will result in all labels being written vertically.

However, it is always possible to restore the factory settings.

MEMO

- See pages "List of "Length" Menu" (p.57), "List of "Style" Menu" (p.58), "List of "Mode" Menu" (p.64) to see the factory settings of each function.
- Deleting all the text using Length, Style, and Mode will restore the default settings.
- Data saved in a file will reflect the settings at the time of the saving.

CAUTION!

Delete all the text before changing the default settings.
See "Deleting all the text" (p.44)

List of "Condition" menu

Pressing Undo while holding down Shift (= Condition) allows you to change the default settings for screen display units and the display language. (The default setting is indicated by Bold).

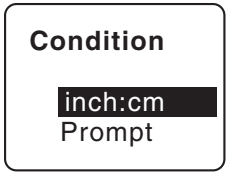
Menu	First option	Second option
Condition		
inch: cm ▶	cm **inch**	
inch: cm Sets the unit displayed on the display. **See p.119.**		
Prompt ▶	**English** Spanish	
Prompt Sets the language displayed on the display. **See p.120.**		
Density ▶	-3 : **0** : +3	
Density Sets the print density. **See p.121.**		
AllDefault ▶	**Execute?**	
AllDefault Restores the factory default settings. **See p.122.**		
Setting ▶	**Length** ▶ Vertical ▶ Lines ▶ Layout ▶ Frame ▶ Font ▶ Decorate ▶ Exp./Red. ▶ Border/Art ▶ Space ▶ End? ▶	Sets the various settings. Setting procedures are the same as that of "Style" or "Mode".
Setting Sets the default settings. **See p.123.**		

Setting the Display Units

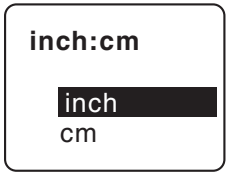
You can set the display units to inches or centimeters.

1 **Press Undo (=Condition) while holding down Shift.**
The "Condition" menu will be displayed.

2 **Select "inch:cm" and press Return.**
"inch:cm" menu will be displayed.



3 **Select the unit using ↑ or ↓ and press Return.**
The display unit has been set.



MEMO

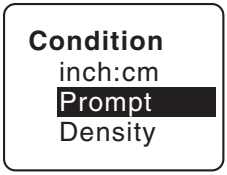
To cancel the setting process press Esc Bs or Undo. Repeating this procedure brings you back to the text enter screen.

Setting the Display Language

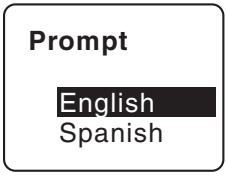
You can change the display language to English or Spanish.

1 **Press Undo (=Condition) while holding down Shift.**
The "Condition" menu will be displayed.

2 **Select "Prompt" and press Return.**
"Prompt" menu will be displayed.



3 **Select the language using ↑ or ↓ and press Return.**
The display language is set.



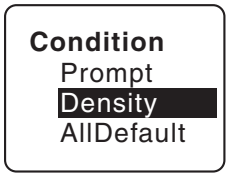
MEMO

To cancel the setting process press Esc Bs or Undo. Repeating this procedure brings you back to the text enter screen.

Adjusting the Print Density

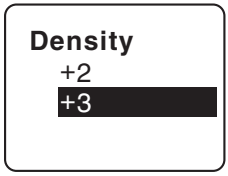
Print density is adjustable in seven levels. Adjust the printing density if you find that the printing is too light or dark. Usually use "Normal".

1 **Press Undo (=Condition) while holding down Shift.**
The "Condition" menu will be displayed.



2 **Select "Density" and press Return.**
"Density" menu will be displayed.

3 **Adjust the density using ↑ or ↓ and press Return.**
The density is adjusted.



MEMO

- This machine is equipped with a temperature sensor, the print density is automatically adjusted to match the printing head.
- Setting density to another setting than "Normal" consumes more electricity and can result in distorted characters being printed. Very rarely label characters may peel off, exercise caution.
- Printing density settings are not initialized when the machine is turned off. Use this procedure to correct settings or initialize the machine.
  See "Resetting LABEL PRINTER PRO" (p.124)

Restoring the default settings to the factory settings

Restores changed settings to the factory settings.

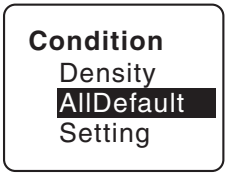
1 Delete all the text by pressing Esc Bs (= Delete) while holding down Shift.

CAUTION!

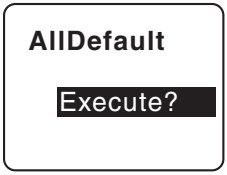
Delete all text before changing default settings. **See "Deleting all the text" (p.44)**

2 Press Undo (= Condition) while holding down Shift.

3 Select "AllDefault" and press Return.



4 Select "Execute?" and press Return.
Initial factory settings are restored as default settings.



MEMO

To cancel the setting process press Esc Bs or Undo. Repeating this procedure brings you back to the text enter screen.

Changing default settings

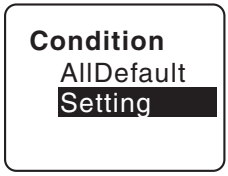
1 Delete all the text by pressing Esc Bs (= Delete) while holding down Shift.

CAUTION!

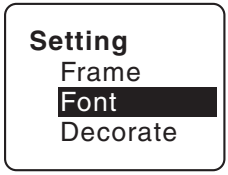
Delete all text before changing default settings. **See ☞ "Deleting all the text" (p.44)**

2 Press Undo (= Condition) while holding down Shift.

3 Select "Setting" and press Return.



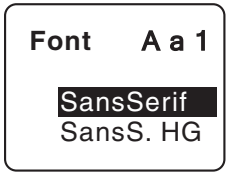
4 Select the item you want to change and press Return.



5 Select the option you want to set as default setting and press Return.

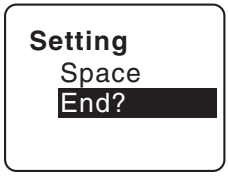
Set each item using the same method as the one used to set the File, Mode, etc.

See ☞ "Improving the Appearance of the Label" (p.54)



6 Once you have changed all the items you wanted to change, select "End?" from the "Setting" menu and press Return.

The default settings are changed and the text enter screen will be displayed again.



Resetting LABEL PRINTER PRO

CAUTION!

- This machine is an electronic device and therefore may sometimes stop working as a result of static electricity or other causes.
- If the display is distorted and the machine has stopped responding, the ON/OFF key does not work, reset the machine through the following procedure.
- After resetting you will be able to use the machine as usual. However, occasionally, even after resetting the machine may not respond. In this case bring the machine back to your dealer to be repaired. Resetting, repairs, checks will delete all the saved data, such as file data and user's symbol data. This data cannot be restored.

Reset

Resetting restores the factory settings.
Before resetting your device, refer to the table below for the items to be deleted.

Content \ Function		Reset	Restore default setting	Delete all	Delete fixed forms
Entry	Text entered on the display	●	—*1	●	●
	Text entered in fixed forms	●	—	●	●
	Input status and CapsLock status	●	—	—	—
	"Graphic" setting	●	—	—	—
Data	File	●	—	—	—
	User's symbol	●	—	—	—
Setting	Print density	●	—	—	—
	Display level	●	—	—	—
	Various set values	●	●	—	—

● : Restores the factory settings.
— : Set conditions remain.
*1 : Be sure to delete all the text before performing "AllDefault".

Resetting

1 Press (ON/OFF) and turn the power off.

CAUTION!

If the machine does not turn off when pressing (ON/OFF), unplug the AC adapter and remove the batteries. Plug the AC Adapter again or install the batteries and press (ON/OFF) again. Power is restored. Reset the machine using procedure 1.

2 Press (ON/OFF) while holding down [Return Column] and (Esc Bs).

A message reading "Reset?" blinks.

CAUTION!

- To abort resetting process press any key except for [Return].
- Please be noted that the saved files, user's symbols, and various data will be deleted once you reset the device.

3 Press [Return].

"Reset" will be displayed. Once the machine is reseted the selected length unit will be displayed, the text enter screen appears.

Appendix

List of Menus (English)

Refer to the reference pages for details.

Button	Feature	Reference page
Shift + Print	Feed/Cut	P.30
Rpt. Enl.	Extra Print	P.110
File	File	P.90
Shift + File	Form	P.79
Sym. A	Symbol A	P.130
Sym. B	Symbol B	P.131
Shift + Sym. A	Sequence	P.105
Shift + Sym. B	Bar Code	P.107
Length	Length	P.57
Style	Style	P.58
Mode	Mode	P.64
Shift + Undo	Condition	P.119
Shift + Esc Bs	Delete	P.49

Lista de menús (Español)

Consulte las páginas de referencia para obtener información adicional.

Botón	Característica	Página de referencia
Shift + Print	Avance/corte	P.30
Rpt. Enl.	Impr. extra	P.110
File	Archivo	P.90
Shift + File	Forma	P.79
Sym. A	Símbolos A	P.132
Sym. B	Símbolos B	P.133
Shift + Sym. A	Secuencia	P.105
Shift + Sym. B	CódigoBarras	P.107
Length	Longitud	P.57
Style	Estilo	P.61
Mode	Modo	P.66
Shift + Undo	Condición	P.119
Shift + Esc Bs	Borrar	P.49

List of "Symbol A/Symbol B" menus (English)

Press Sym. A or Sym. B to enter symbols. The default setting is indicated by Bold .

Menu		First option
Symbol A	Public Signs ▶	Select the symbol.
	Shop ▶	
	Construction ▶	
	Hospital ▶	
	Europe ▶	
	LatinAmerica ▶	
	Greek ▶	
	Number ▶	
	Parenthesis ▶	
	Arrows ▶	
	Units ▶	
	Math ▶	
	ANSI ▶	
	Bio-Chemical ▶	
	Electrical ▶	
	Misc ▶	
	Environment ▶	
	Packages ▶	
	Warnings ▶	

Menu			First option
Symbol B	User's Symbol	▶	Register
			Modify
			Recall
			Copy
			Delete
			Ref.Register
			Ref.Modify
	Abbreviation	▶	Select the symbol.
	Mark	▶	
DoubleFigure You can enter 2-digit numbers. **See ☞ p.70.**	DoubleFigure	▶	Select the number.
	Work	▶	Select the symbol.
	Sports	▶	
	Video	▶	
	Music	▶	
	LivingThing	▶	
	Vehicles	▶	
	Foods	▶	
	Schedule	▶	
	Life	▶	
	Seasons	▶	
	Family	▶	

Lista de los menús "Símbolos A/Símbolos B" (Español)

Pulse Sym. A o Sym. B para introducir símbolos.
El ajuste predeterminado se indica mediante Negrita .

Menú		Primera opción
Símbolos A	Señales ▶	Seleccione el símbolo.
	Tienda ▶	
	Construcción ▶	
	Hospital ▶	
	Europa ▶	
	Latinoaméri. ▶	
	Griego ▶	
	Números ▶	
	Paréntesis ▶	
	Flechas ▶	
	Unidades ▶	
	Matemáticas ▶	
	ANSI ▶	
	Bio-Química ▶	
	Eléctrico ▶	
	Vario ▶	
	Ambiente ▶	
	Paquetes ▶	
	Advertencia ▶	

Menú			Primera opción
Símbolos B	UsuarioSímb.	▶	Almacena
			Retoque
			Recuperar
			Copiar
			Borrar
			Ref.Almacena
			Ref.Retoque
	Abreviatura	▶	Seleccione el símbolo.
	Marca	▶	
Doble Cifras Puede introducir números de 2 dígitos. **See** **p.70.**	Doble Cifras	▶	Seleccione el número.
	Trabajo	▶	Seleccione el símbolo.
	Deporte	▶	
	Vídeo	▶	
	Música	▶	
	Ser Viviente	▶	
	Vehículo	▶	
	Alimentos	▶	
	Horario	▶	
	Vida	▶	
	Estación	▶	
	Familia	▶	

List of "Feed" menu

Hold down the Shift key and press Print (=Feed & Cut) to feed or feed & cut the tape. The default setting is indicated by Bold .

Menu	
Feed/Cut	
Feed/Cut You can feed the tape. **See ☞ p.30.**	Feed **Feed/Cut** Cut

List of "Delete" menu

Hold down the Shift key and press Esc Bs (=Delete) to delete the text or the paragraph. The default setting is indicated by Bold .

Menu	
Delete	
Delete You can delete the text or the paragraph. **See ☞ p.43.**	**All** Paragraph

Messages On the Display

When an error message appears

MEMO

Sample screens shown below may vary depending on the display pattern.
See "Switching display [Graphic]" (p.22).

Error message	Cause and Remedy
Change Batteries	The batteries have run out. Turn the power off and replace all the batteries with new AA alkaline batteries. Also, make sure that the batteries are inserted with correct polarity. It is recommended that you use the AC adapter that comes with the product as much as possible. **See "Connecting the AC adapter" (p.24).** **See "Installing the batteries " (p.25).**
Close Cover!	This message appears when you open the top cover while the power is on. LABEL PRINTER PRO automatically turns off after showing this message. Close the top cover and turn the power on to use the device again.
No Tape!	The tape cartridge is not installed or not installed correctly. Turn the power off and reinstall the tape cartridge correctly. **See "Installing tape cartridges" (p.27).**
Over Heat!	The printhead is overheated due to the continuous printing. Turn the power off, remove the tape cartridge, and leave the device until it cools down.
Line Over!	The device cannot print the label or display the print image as the installed tape cartridge is not wide enough for the entered text. Press any key to return to the text enter screen, then install the wider tape cartridge or delete some lines. **See "Maximum number of lines" (p.45).**

Error message	Cause and Remedy
Sequence and BCR Max 3	The total number of sequence numbers and bar codes used per one label is limited to three. Press any key to return to the text enter screen. **See ☞ "Printing Sequence Numbers and Bar Codes" (p.104).**
Extra Print Impossible!	The length of the tape exceeds the printable limit (52.5 feet) due to "Enlarge" and/or "Repeat" settings. Press any key to return to the text enter screen, and change the "Enlarge" and/or "Repeat" settings. **See ☞ "Extra Print Functions (Repeat, Enlarge)" (p.110).**
Text Long! Go?	The text you entered is too long too fit within the specified length. Press any key to return to the text enter screen and perform the following remedies: • Delete some characters • Reduce the font size You can also press Return or Print to continue printing or previewing regardless of the set length. **See ☞ "Length" (p.68).**
Memory Full!	The memory for registering files is full. In order to register new files, press any key to return to the text enter screen, and delete unnecessary files. **See ☞ "Deleting a file" (p.93).**
No File!	You have attempted to recall, delete, or copy files when there is no file saved on the device. Press any key to return to the text enter screen. **See ☞ "Saving a file" (p.91).**

Problems and Solutions

The device does not operate normally

LABEL PRINTER PRO is a electronics device and may rarely malfunctions due to static electricity or other causes.
If the display is distorted, if you cannot turn on/off the power, or a similar malfunction occurs, you need to initialize the device.
See "Resetting LABEL PRINTER PRO" (p.124).

Nothing appears on the display even after pressing ON/OFF

- **Is the AC adapter connected firmly?**
  The AC adapter should be connected both to the device and the electrical outlet firmly.
- **Are the batteries installed with correct polarity?**
  The device does not turn on when the batteries are installed with its ⊕and ⊖ terminals reversed. Make sure to install the batteries correctly.
- **Are you using the dedicated AC adapter?**
  Use of the AC adapter not bundled with the LABEL PRINTER PRO may overheat or damage the circuit of the device.
- **Have the batteries run out?**
  The device may not turn on when the batteries are running low. Replace them with new batteries.
- **Is the display level appropriate?**
  The text on the display may become invisible depending on the display level. Adjust the display level to the most comfortable eye level.
  See "Adjusting Display Level" (p.20).

Keyboard does not operate

- **Is "PC Link" displayed on the screen?**
  When connected to a computer, commands through the computer have higher priority than that of the keyboard.
  Press PC to cancel the PC Link to activate the keyboard.

Display turns off unexpectedly

- **Is auto power-off active?**
  If there is no activity for approx. five minutes, the LABEL PRINTER PRO automatically shuts down in order to save battery power (auto power-off).
- **Is the top cover opened?**
  When the top cover is opened, a built-in protection circuit turns the power off.
- **Did you make any mistakes?**
  Display turns out for a moment when you make a mistake in key operations.

Nothing is printed when pressing Print

● **Is text entered?**

Nothing is printed when there is no text in the text enter screen or in a fixed form.

● **Is PeelGuard™ operating?**

You cannot print while the PeelGuard™ is operating.

● **Is the tape cartridge installed correctly?**

You cannot print when there is no remaining tape in the tape cartridge or when the top cover is not closed properly. Install a tape cartridge and close the top cover firmly.

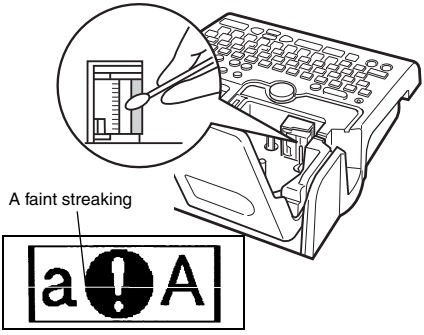
Text is not printed properly

● **Is the tape cartridge installed correctly?**

Remove the tape cartridge and reinstall it again following the correct procedure.
See "Installing tape cartridges" (p.27).

● **Is the printhead free from dirt?**

Printing becomes faint when dirt or dust adheres to the printhead. Rub the printhead with a cotton swab moistened with medical alcohol (ethanol) available in the market.
See "Cleaning LABEL PRINTER PRO" (p.140).



● **Has the batteries run out?**

When the batteries are running out, "Change Batteries" appears on the display. Replace all the batteries with new AA alkaline batteries immediately or connect the AC adapter that comes with the device, otherwise the LABEL PRINTER PRO may turn off in the middle of the operation or during printing.

The printed label is not cut automatically

● **Is the auto-cutter feature disabled?**

The printed label is not cut automatically when the auto-cutter feature is disabled.
See "Turning "Autocut" Off to Print" (p.116).

● **Is the blade worn out?**

When you use the PeelGuard™ over the long term, the blade of the PeelGuard™ becomes blunt. To replace the blade, consult the local dealer or our customer center. Replacement is performed at your expense.

Printing stops in the middle of the text

● **Is the tape remaining in the tape cartridge?**

If the tape in the tape cartridge has run out, replace the cartridge with a new one.
See "Installing tape cartridges" (p.27).

● **Has the batteries run out?**

When the batteries are running out, "Change Batteries" appears on the display. Replace all the batteries with new AA alkaline batteries immediately or connect the AC adapter that comes with the device, otherwise the LABEL PRINTER PRO may turn off in the middle of the operation or during printing.

PeelGuard™ does not work properly

● **Is printing in progress?**

PeelGuard™ does not operate during printing.

● **Is the label fully inserted?**

Make sure to align the label against the PeelGuard™ guide and insert the label as far as it will go.

See ☞ "Rounding off the corners" (p.50).

● **Is the tray full of paper dust?**

Remove the PeelGuard™ tray and clear the paper dust.

See ☞ "Cleaning PeelGuard™" (p.51).

● **Trying to trim 204" or 206 tape?**

PeelGuard™ does not support 204 or 206 tape.

● **Trying to trim unsupported tape?**

Be sure to use the tapes supported by the LABEL PRINTER PRO.

See ☞ "Rounding Off the Corners" (p.50).

● **Is the blade worn out?**

When you use the PeelGuard™ over the long term, the blade of the PeelGuard™ becomes blunt. To replace the blade, consult the local dealer or our customer center. Replacement is performed at your expense.

Contents of files are gone

● **Has the built-in battery expired?**

LABEL PRINTER PRO contains a lithium battery to save texts, files, and use's symbols. See the sticker on the backside of the main unit as a guide for the timing and replace the lithium battery. To replace the battery, consult the local dealer or our customer center. Replacement is performed at your expense.

● **Has the device initialized?**

Once you initialize your LABEL PRINTER PRO, the saved data such as files and user's symbols are cleared.

See ☞ "Resetting LABEL PRINTER PRO" (p.124).

● **Did you disconnect the AC adapter or remove the batteries during operation?**

Do not disconnect the AC adapter or remove the batteries when "Execute", "Wait", or "Printing" is displayed on the screen, or the saved data such as files and user's symbols will be cleared.

You cannot attach labels

● **Is the backing sheet removed?**

Peel off the backing sheet of the adhesive tape to attach.

See ☞ "Attaching label" (p.38).

● **Are you attaching labels to clean and flat surface?**

Labels may peel off easily or not adhere well when attached to oily, dusty, or rough surfaces.

MEMO

If the problem is not solved after checking the items described above, consult the local dealer or our customer center.

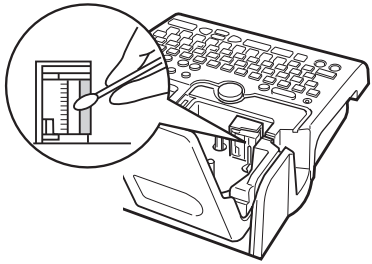
Cleaning LABEL PRINTER PRO

■ To remove dirt and dust from the exterior

Use a soft and dry cloth to wipe off. If the exterior is extremely dirty, use a cloth wrung out of water. Never use chemical dusters, agents, or solvents such as benzine, thinner, or alcohol.

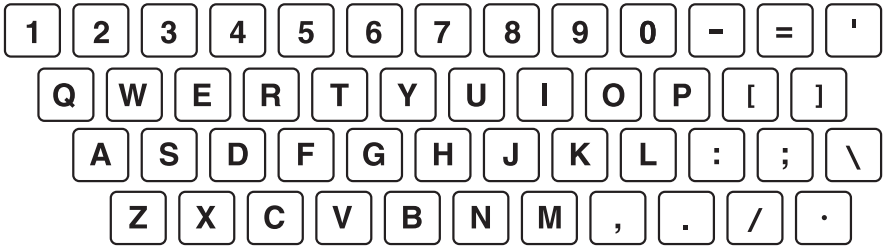
■ When the printing becomes faint

Printing becomes faint when dirt or dust adheres to the printhead. Rub the printhead with a cotton swab moistened with medical alcohol (ethanol) available in the market.



List of Characters

Key layout



Character table

Press each key to enter the character in the "Upper case" column. Hold down the Shift key and press each key to enter the characters in the "Lower case" column.

Key	Character	
	Upper case	Lower case
1	1	!
2	2	@
3	3	#
4	4	$
5	5	%
6	6	^
7	7	&
8	8	*
9	9	(
0	0	)
-	-	_
=	=	+
'	'	"
Q	q	Q
W	w	W
E	e	E
R	r	R
T	t	T
Y	y	Y
U	u	U
I	i	I
O	o	O
P	p	P
[	[	{
]	]	}

Key	Character	
	Upper case	Lower case
A	a	A
S	s	S
D	d	D
F	f	F
G	g	G
H	h	H
J	j	J
K	k	K
L	l	L
:	:	:
;	;	;
****	\	|
Z	z	Z
X	x	X
C	c	C
V	v	V
B	b	B
N	n	N
M	m	M
,	,	<
.	.	>
/	/	?
・	・	・

Specifications

■ Input

Input device	Keyboard (72 keys) Character keys 48, function keys 23

■ Display

Display panel	Dot matrix STN LCD
Character display	16 dot x 16 dot x 6 column x 4 line
Display level	-5 – Normal – +5 (11 levels)
Indicators	26
LED	1

■ Storage

Document memory	About 175 characters (with limited backup)
Internal files	Variable-length data About 5,000 characters/max. 99 files

■ Fonts

Internal fonts	SansSerif	BoldGothic
	SansS. HG	BR
	SansS. ST	Mincho
	Roman	Gyosho
	US Rpman	Reisho
	CL Roman	CB
	Gothic	Script PL

■ Printing

Printing method	Thermal transfer PRO printing
Print density	-3 – Normal – +3 (7 levels)
Head type	Thin film thermal head (180 dpi, 128 dot)
Tape width detect	Detects P tape standard holes (7 types)
Tape cartridge	Compliant with P tape standard One-time tape cartridge that prevents reversal and slack Wear-resistant PRO mechanism 204,206,209,212,218, 224
Cutter	Auto-cutter with the mechanism to remove electricity
PeelGuard™	Rounds off the corners automatically (0.12" in radius) Sensor equipped

■ Print functions

Seven character sizes, 49 types (17 sizes and 121 types when enlarged printing included).

	Size 1	16 x 16 dot
	Size 2	24 x 24 dot
	Size 3	32 x 32 dot
	Size 4	48 x 48 dot
	Size 5	64 x 64 dot
	Size 6	96 x 96 dot
	Size 7	120 x 120 dot
Length	Length	1.0-15.0" (3.9-40.0cm)
Style	Vertical	Horizontal or vertical text orientation
	Lines	Equal, 1Line (1a-1d), 2Lines (2a-2h), 3Lines (3a-3k), 4Lines (4a-4e), 5-8Lines
	Layout	Left, Center, Right
	Frame	Off, Table 01-04, frame 01-06
Mode	Font	SansSerif, SansS. HG, SansS. ST, Roman, US Roman, CL Roman, Gothic, BoldGothic, BR, Mincho, Gyosho, Reisyo, CB, Script PL
	Decorate1	Out Line, Normal, Shadow, Shadow + Out Line
	Decorate2	Italic, Bold, Normal, Italic + Bold
	Exp./Red.	Small1, Small2, Reduce, Normal, Expand
	Border/Art	C.Line, U.Line, Off, Border, Round, Art, B.Art, R.Art
	Space	None, Narrow, Normal, Wide
Rpt. Enl.		Repeat, Enlarge, Auto-cut (On/Off)
Num./BCR	Seq.Number	(increment direction, Addition Number, Repeat Number of times, alphanumeric support)
	Bar Code	(6 types: CODE128, CODE 39, ITF, CODABAR, UPC-A, UPC-E)
Print density	-3, -2, -1, 0, +1, +2, +3	
Display density	-5, -4, -3, -2, -1, 0, +1, +2, +3, +4, +5 (with Light and Dark keys)	
Saved data	Length, Style, Mode	
Design forms	17 forms (templates)	
Fixed forms	2 forms	
Extra print	Enlarge, Repeat	

■ Power supply, other

Main power	AC 120 V (Bundled AC adapter must be used)
Sub battery	AA alkaline batteries x 6, built-in lithium battery CR2032 to save data
Power switch	Button
Auto power-off	After about 5 minutes with no operations (Disabled when creating/editing user's symbols)
Dimensions and weight	About 7.9" W x 8.1" D x 2.5" H About 1.9 lb. (excluding batteries and tape cartridge)
Available items	AC adapter or Hard Plastic Carrying Case Replacement LABEL PRINTER PRO User's Manual

■ Environmental conditions

Temperature	(Operating)	41 to 95 ºF (5 to 35 ºC)
	(Storage)	15 to 130 ºF (-10 to 55 ºC)
Humidity	(Operating)	30% to 80% (no condensation)
	(Storage)	20% to 80% (no condensation)

Part Number	Description
Accessories	
LSAD3	Adapter for K-Sun LABEL PRINTER PRO
LSCSS-11	Black Carrying Case
Shrink Tube Cartridge (96”) for use with shrink tube models	
203STBW	Black on White 1/8”
203STBY	Black on Yellow 1/8”
205STBW	Black on White 3/16”
205STBR	Black on Red 3/16”
205STBY	Black on Yellow 3/16”
208STBW	Black on White 1/4”
208STBY	Black on Yellow 1/4”
210STBW	Black on White 3/8”
211STBW	Black on White 1/2”
211STBR	Black on Red 1/2”
211STBY	Black on Yellow 1/2”
Industrial Labeling Tape, 1/6” (4mm) 26’ each	
204BW	Black on White
Industrial Labeling Tape, 1/4” (6mm) 26’ each	
206BC	Black on Clear
206BW	Black on White
206BY	Black on Yellow
206WB	White on Black
206BG	Black on Green
206BB	Black on Blue
206BR	Black on Red
Industrial Labeling Tape, 3/8” (9mm) 26’ each	
209BC	Black on Clear
209BW	Black on White
209BY	Black on Yellow
209WB	White on Black
209BG	Black on Green
209BB	Black on Blue
209BR	Black on Red

Part Number	Description
Industrial Labeling Tape, 1/2” (12mm) 26’ each	
212BC	Black on Clear
212BW	Black on White
212BY	Black on Yellow
212WB	White on Black
212BB	Black on Blue
212BR	Black on Red
212BG	Black on Green
212WR	White on Red
212WG	White on Green
212WL	White on Blue
212GC	Gold on Clear
212WC	White on Clear
212GB	Gold on Black
212RA	Black on White - Removable Adhesive
Specialty Tape, 3/4” (18mm) 13’ 10” each	
218WPO	Black on Oakwood Grain
218WPR	White on Rosewood Grain
218SPV	Black on Valence Marble
218SPG	White on Granite Stone
218CGS	White on Sunset
Specialty Tape, 3/4” (18mm) 5’ 8” each	
218HLF	Black on Holographic
218RFR	Black on Reflective Red
Fluorescent Tape, 3/4” (18mm) 16’ each	
218FR	Black on Fluorescent Red
218FP	Black on Fluorescent Pink
218FO	Black on Fluorescent Orange
218FY	Black on Fluorescent Yellow
218FG	Black on Fluorescent Green

Part Number	Description
Industrial Labeling Tape, 3/4” (18mm) 26’ each	
218BC	Black on Clear
218RC	Red on Clear
218WC	White on Clear
218BW	Black on White
218BY	Black on Yellow
218RW	Red on White
218WB	White on Black
218BX	Black on Gray
218BB	Black on Blue
218BR	Black on Red
218BO	Black on Orange
218BG	Black on Green
218BV	Black on Violet
218WR	White on Red
218WO	White on Orange
218WG	White on Green
218WL	White on Blue
218WX	White on Gray
218BLW	Blue on White
218BTM	Black on Translucent Matte
218SM	Black on Silver Matte - 16’ 4”
Industrial Labeling Tape, 1” (24mm) 26’ each	
224BC	Black on Clear
224BW	Black on White
224BY	Black on Yellow
224WB	White on Black
224BB	Black on Blue
224BR	Black on Red
224BG	Black on Green
224WR	White on Red
224WO	White on Orange
224WG	White on Green
224WL	White on Blue
Industrial Labeling Tape, 1” (24mm) 26’ each	
224SL	1/4” Black on White - 3/4” Clear Tail

Information about Shrink Tube

For use with models that can accommodate shrink tube

Shrink Tube – Information deemed reliable but not guaranteed. See manufacture's specification sheet for further information. Test for your applications.

Shrink Tube Cartridges				Internal Diameter as Supplied mm (min)	Range of Wire Diameter (in)	Range of Wire Diameter (mm)
Part No.	Ink Color	Tube Color				
203STBW	BLACK	WHITE	1/8"	3.2	.046 - .110	1.17 - 2.79
203STBY	BLACK	YELLOW	1/8"	3.2	.046 - .110	1.17 - 2.79
205STBR	BLACK	RED	3/16"	5.7	.062 - .150	1.57 - 2.79
205STBY	BLACK	YELLOW	3/16"	5.7	.062 - .150	1.57 - 2.79
205STBW	BLACK	WHITE	3/16"	5.7	.062 - .150	1.57 - 2.79
208STBW	BLACK	WHITE	1/4"	6.4	.094 - .215	2.39 - 5.46
208STBY	BLACK	YELLOW	1/4"	6.4	.094 - .215	2.39 - 5.46
210STBW	BLACK	WHITE	3/8"	9.4	.125 - .320	3.18 - 8.13
211STBR	BLACK	RED	1/2"	10.9	.187 - .450	4.75 - 11.43
211STBY	BLACK	YELLOW	1/2"	10.9	.187 - .450	4.75 - 11.43
211STBW	BLACK	WHITE	1/2"	10.9	.187 - .450	4.75 - 11.43

Shrinkage Rate: 50% or more in diameter, 15% less in length
Temperature Range: 90 - 270°C
Compliance Standards: UL Standard 224 (Rated Temperature: 125°C, Rated Voltage: 300V, Flame Resistance Grade VW-1)

•Although the tube is made of insulating materials (polyolefin), it does not meet the standards set for insulated tube construction. Do not use the tube in locations where withstand voltage capability is required.

User Precautions

•Prints may appear distorted due to special surface materials.

•Prints may become diminished if the surface of the tube is scratched or wiped with paint thinner, etc.

•Avoid exposure to direct sunlight or the outdoors.

•Use an industrial dyer when performing the heat shrinking process in order to achieve proper shrinkage levels. Do not use soldering irons, cigarette lighters, an open flame or home hair dryers.

continued ›

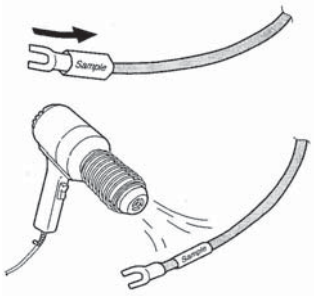
...continued user precautions

- When the tube shrinks, the printed characters may become distorted and difficult to read. Printed bar codes may also become undecipherable.
- Use caution when handling industrial dryer units.
- Do not apply heat to any surface for an extended period of time, even when the operating temperature is within the recommended range.
- This product is not intended for use on any person or animal, or for vandalizing public or private property.
- Avoid storing this product in places with high temperatures or humidity. Do not expose this product to direct sunlight or dust particles. For best results, use this product immediately after it is removed from its packaging.

Preparation

Print on the heat shrinkage tube

1. Set the cartridge in the unit.
2. Feed the tape and cut the tube.
3. Enter characters and print.



Surface Mounting

1. Place the tube over the wire or cable.
2. Blow hot air across the tube using an industrial dryer to shrink the tube.
3. When the tube fits snugly against the surface, the shrinking process is finished.

DO NOT OVER HEAT THE SHRINK TUBE MATERIAL.

Only use dryers that meet industrial standards during the heat shrinking process. Do not use soldering irons, cigarette lighters, an open flame, or consumer drying appliances (hair dryers, etc.) to avoid the accidental ignition of a fire.

Take sufficient precautions while operating industrial dryer units.

Coloring of the tube may be altered, characters may disappear, and surfaces may be damaged or discolored depending on the construction of the surface, the environmental conditions and the conditions during adhesion. Please select an unnoticeable location for testing the actual results of the product prior to use.

Avoid surfaces that do not provide sufficient heat resistance. Heat shrinking can damage surfaces that are not conducive to high temperatures.

Avoid direct contact with the tubes during or immediately after shrinking to prevent injuries.

NOTES:

Printed on Recycled Paper

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